CONSTRUCTION NEWS

UPS AND DOWNS OF THE MARKET

PIG IRON—The market for prompt tonnages is particularly strong, owing to many inquiries and extremely limited supplies. The shortage is especially for foundry iron, as only a few merchant furnaces are making this grade and most of them are sold up through the remainder of the year.

RAILWAY SUPPLIES—Demand for light rails for coal mines seems to have improved although price changes are practically negligible. Last month's figures for standard spikes in Chicago are now given as the lower limit of a range: $3.62@$4.25.

SEWER PIPE—Sewer pipe declined in price in Boston, but advanced in Minneapolis, Baltimore and Detroit. Fluctuations are so erratic in Denver that companies decline to give quotations at this time.

CONCRETING MATERIALS—The present price of cement in New York is $4.10 exclusive of bags, delivered, an increase of 30c over last month. The price is advanced 25c in Jersey City, present quotation being $3.22 net. Fluctuations are such that this Jersey City price is only temporary. For example, one of the large dealers has received an offer from one manufacturer at $3.77 as against his own price to contractors of $3.22. His price is an advance of 25c over cost, but he does not wish to make any contracts on this basis, owing to the uncertainty of the market. The reason for the unusually high prices appears to be the coal situation. Although cement manufacturers have for the most part contracts, they are unable to obtain sufficient coal on the contracts and are therefore buying in the open market at prices ranging up to $15 per ton. The only price change in the Middle West is in Minneapolis and St. Paul, which occurred because of a freight adjustment. The Denver price is now $3.80 net. Crushed stone advanced in Chicago, Minneapolis and Montreal. Hydrated lime advanced in Boston, but decreased in Detroit and Baltimore.

REINFORCING MATERIALS—Reinforcing bars, triangle mesh, and expanded metal lath are quoted the same as last month with the same conditions prevailing.

BRICK—Common brick advanced 50c in New Orleans, $1 in Chicago and $3 to $5 in Minneapolis. Prices of paving block are the same as last month, but the car shortage has made it difficult to obtain the block in certain cities. We have heard of a quotation of $80 per thousand for 4-in. block in Boston.

HOLLOW TILE—Up in Minneapolis; down in Detroit, Boston and New Orleans. Quotations have been withdrawn in Denver.

STRUCTURAL MATERIAL—The higher range of prices of beams, channels and angles has been dropped from $3.75 to $3.10. In Pittsburgh the price of tees remain the same; plates have advanced 25c, to a level of $4. At warehouses prices remain unchanged. Inability of fabricators to secure raw material has lowered production, while a shortage of flat cars interferes with shipments. The demand for plates is not excessive and the Steel Corporation will accept orders.

PREPARED ROOFING AND ROOFING MATERIALS—Prepared roofings advanced 10c per square in New York, with the Philadelphia price at the same level as was the New York price last month. Slate surface roofing in rolls of 108 sq.ft. advanced to $4.25 as against $3.50 last month. Tar pitch, asphalt pitch and asphalt felt advanced

STEEL SHEETS—In spite of some cancellations of orders by automobile builders the demand for sheets is holding firm. Prices also are firm owing to obligations upon the mills that will tax them for the remainder of the year. Few manufacturers will accept orders. Unfilled tonnages of independent makers are reported as approaching 1,000,000 tons. At New York warehouses the range has advanced from 30c to $1 on galvanized sheets, and the higher limit for black sheets has advanced 70c, giving a range for No. 28 of $8@$9.70.

LUMBER—Douglas fir advanced $3 per thousand in San Francisco. Pine prices in New York and St. Louis remain the same, but declined considerably in Chicago, due to a flat market. There were abrupt decreases in Boston and Denver. The Lumbermen's Bureau reports that for nearly a month yellow pine production has been falling off because of the declining market and the difficulties of transportation. Fifty per cent of the normal supply of cars is about the best that most mills are obtaining, while some are able to secure only 25%, which amounts almost to a shut-down. In New Orleans the lowest price since the war was reached for pine lumber about one month ago, but there has been a slight advance in the meantime.

LABOR—Wage increases in Boston, Denver, Minneapolis and Pittsburgh. Bricklayers are paid $1.50 per hour in Pittsburgh, as against the former price of $1.12½, following a seven weeks' strike. Carpenters are to receive $1.25 per hour in Pittsburgh after Sept. 16, as a result of the strike settlement. In Minneapolis there has been a 5c increase in the common labor rate, and another increase is expected in a few weeks; but this is seasonal, due to the lure of the grain fields in harvest time. In Chicago the labor supply is plentiful and contractors report increased efficiency.

Price advances are indicated by **heavy type**; declines by *italics*

PIG IRON—Quotations compiled by The Matthew Addy Co.:

	Current	One Year Ago
CINCINNATI		
No. 2 Southern	$45.60	$30.35
Northern Basic	42.80	27.55
Southern Ohio No. 2	46.80	28.55
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	49.65	**32.40**
Southern No. 2 (silicon 2.25 to 2.75)	49.70	**35.20**
BIRMINGHAM		
No. 2 Foundry	42.00@44.00	**28.00**
PHILADELPHIA		
Eastern Pa	46.00@48.25*	30.65*
Virginia No. 2	45.00*	**32.10***
Basic	44.50†	30.90†
Grey Forge	43.50*	29.90*
CHICAGO		
No. 2 Foundry Local	**45.00**	26.75
No. 2 Foundry Southern	**48.70**	28.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	45.65	28.15
Basic	44.40	27.15
Bessemer	44.90	29.35
MONTREAL		
Silicon 2.25 to 2.75%	43.25	.....

* F. o. b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh			Chicago		
	Current		One Year Ago	Current		One Year Ago
Standard bessemer rails	$45.00	@$60.00	$45.00	$45.00	@$55.00	$45.00
Standard openhearth rails	47.00	@ **62.00**	47.00	47.00	@ 57.00	47.00
Light rails, 8 to 10 lb.	50.00	@ 55.00	2.585*	2.585*	@3.75	2.835*
Light rails, 12 to 14 lb.	**50.00**	@ *55.00*	2.54*	2.54*	@3.75	2.79*
Light rails, 25 to 45 lb.	**50.00**	@ *55.00*	2.45*	2.45*	@3.75	2.70*

* Per 100 lb.

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8 Ft.
Chicago	Plain	$2.00	$2.25
Chicago	Creosoted	2.25	2.50
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.70	1.92

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.70	No. 1	**$0.55**
No. 2	.80	No. 2	.65
No. 3	.90	No. 3	.75
No. 4	.98		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note.—Add 36c. each for treatment.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	— Pittsburgh — Current	One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, $\frac{9}{16}$-in. and larger	$4.00@4.25	$3.35	$3.62@4.25	$5.34	$7.75
Track bolts	6.00@6.50	4.35	4.75@6.50	Premium	8.75
Standard section angle bars	3.00@4.00	3.00	2.75@3.75	Premium	5.30

PIPE

STEEL AND IRON—The following discounts are to jobbers for carload lots on the Pittsburgh basing card, discounts on steel pipe, applying as from January 14, 1920, and on iron pipe from January 7, 1920:

BUTT WELD

Inches	Black	Galv.	Inches	Black	Galv.
$\frac{3}{4}$ to 3	57 @54	44@41½	$\frac{3}{4}$ to 1¼	34½@24½	18½@ 8
			2 and 2½	33½	17½

LAP WELD

2	50½@47	38@34½	2	28½@20½	14½@ 6½
2½ to 6	53½@50	41@37½	2½ to 6	30½@22½	17½@ 9½
7 to 12	50½@47	37@33½	7 to 12	27½@19½	14½@ 6½
13 and 14	41 @37½				
15	38 @35				

BUTT-WELD, EXTRA STRONG, PLAIN ENDS

$\frac{3}{4}$ to 1½	55½@52	39½	$\frac{3}{4}$ to 1½	34½@24½	19½@ 9½
2 to 3	56½@53	44@40½	2 and 2½	34½@24½	19½@ 9½

LAP WELD, EXTRA STRONG, PLAIN ENDS

2	48½@45	37@33½	2	29½@21½	16½@ 8½
2½ to 4	51½@48	40@36½	2½ to 4	31½@23½	19½@11½
4½ to 6	50½@47	39@35½	4½ to 6	30½@22½	18½@10½
7 to 8	46½@43	33@29½	7 to 8	22½@14½	10½@ 2½
9 to 12	41½@38	28@24½	9 to 12	17½@ 9½	5½@ 5½

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black — New York	Chicago	St. Louis
¼ to 3 in. butt welded	40%	54@40%	45%
2½ to 6 in. lap welded	35%	50@40%	41½%
	Galvanized — New York	**Chicago**	**St. Louis**
¼ to 3 in. butt welded	24%	40½@30%	30½%
2½ to 6 in. lap welded	20%	37½%@27½	27½%

Malleable fittings, Class B and C, from New York stock sell at + 32% list prices. Cast iron, standard sizes, net.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	—New York— Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco
4 in.	$79.30	$79.30	$55.30	$78.80	$78.00	$97.55
6 in. and over	76.30	76.30	52.30	75.80	75.00	94.55*

Gas pipe and 16-ft. lengths are $2 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

Size, In.	— New York — Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$42.50	$35.00	$60.00	$60.00	.....	$33.44
4	60.00	51.00	60.00	80.00	$45.00	50.16
5	85.00	65.00	.....	100.00	65.00	62.70
6	110.00	90.00	110.00	120.00	90.00	83.60
8	175.00	130.00	195.00	180.00	150.00	133.76

SEWER PIPE—The following prices are in cents per foot for carload lots:

Size, In.	— New York — Current Delivered	Year Ago Not Del.	St. Louis	Chicago	San Francisco	Dallas
3	$0.19	$0.081	.....	$0.15	$12.75	$0.175
4	.19	.081	.....	.15	17.00	.175
5	.29	.1215	.....	.225	21.25	.245
6	.29	.1215	$0.1855	.225	24.50	.245
8	.45	.169	.265	.35	38.25	.35
10	.67	.283	.371	.525	.51	.....
12	.86	.305	.477	.625	.68	.63
15	1.30	.480	.715	.90	1.10	.....
18	1.88	.675	.935	1.25	1.425	.....
20	2.25	.81	1.15	1.50	1.90	.....
22	3.00	1.08	.....	2.00	.....	.....
24	8.38	1.215	1.65	2.25	2.375	3.10
27	....	2.015	2.45	3.50	2.975	.....
30	....	2.232	2.95	4.00	3.40	.....
33	....	2.79	3.70	4.75	.....	.....
36	....	3.18	4.00	5.50	.....	5.60
	3	5	8	12	24	36
Boston	$0.18	$0.27	$0.42	$0.81	$2.70	$6.86½
Minneapolis	.125	.167	.29	.59	2.09	4.69
Denver	Quotations withdrawn					
Seattle	.....	.....	.3850	68	.....	2.375
Kansas City	No prices obtainable					
Los Angeles	.0975*	.1525*	.27	.48	.60*	.....
New Orleans	35 per cent off					.....
Cincinnati	53 per cent off					38%
Atlanta	.....	.....	.34	.55	2.00	.....
Montreal	58 per cent. off					.....
Detroit	52 per cent. off				50 per cent. off	
Baltimore delivered	.231	.3465	.539	1.0395	3.465	.....

* 4-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Month Ago
New York, 45-65% asphalt (at terminal)	$0.13*	$0.13
New York, liquid asphalt (" ")	.13*	.13
New York, binder (" ")	.14*	.14
New York, flux (" ")	.15*	.15
St. Louis, 40% asphalt	.10*	.10
Chicago, 40-50% asphalt	.08	.08
Chicago, 60-70% asphalt	.08½	.085
Dallas, 40-50% asphalt	.07	.07
Dallas, 60-70% asphalt	.08	.08
Dallas, 75-90% asphalt	.10	.10
San Francisco, binder, per ton	13.00	.....

*Note—Quotations nominal in New York. Scarcity in road oils.

ASPHALTUM—Price per ton in packages (350-lb. bbls. or 425-lb. drums), and in bulk in carload lots:

	Package	Bulk
New York (Bayonne, N. J.)	$35.00	$30.00
Boston	42.42	.....
Chicago	30.90	23.40
San Francisco	19.00	13.00
Dallas	35.00	31.00
Seattle	25.00	.....
Denver	.....	35.00
Minneapolis	30.00	.....
Kansas City	40.00	32.00
Atlanta	25.00	20.80
St. Louis	29.40	23.90
Baltimore	43.00	.....
Los Angeles	21.15	.....
Montreal	.....	37.00
Detroit	49.00	42.25

PAVING STONE—

New York	5-in. granite	No quotations	
Chicago	About 4x8x4 dressed	$3.25	sq.yd.
	About 4x8x4 common	2.90	sq.yd.
San Francisco	Basalt block 4x7x8	65.00	per M
Kansas City	Granite	3.65	sq.yd.
Boston	5-in. granite	110.00	per M
Atlanta	Granite	2.00	sq.yd.
Detroit	Granite, 26½ blocks per sq. yd.	2.85	sq.yd.
Baltimore	Granite	2.40	sq.yd.
Montreal	Granite	5.90	sq.yd.
New Orleans	Granite	3.90	sq.yd.
Cincinnati	Granite	3.25	sq.yd.

FLAGGING—

New York	Bronx	$0.24	sq.ft.
	Manhattan	.25	sq.ft.
	Queens, 5 ft.	.26	sq.ft.
	6x20-in. cross-walk	.95	lin.ft.
Chicago	18 in. wide	.70	lin.ft.

CURBING—Bluestone per lineal foot, in New York, costs 70c. for 5x16 in., 80c. for 5x18 in.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.98
New York	4	16	4.33
Boston	3	16	3.00
Chicago	4	16	3.75@4.00
Chicago	3½	16	3.25@3.50
St. Louis	3½	16	2.90
St. Louis	4	16	3.32
Seattle	4	16	Off market
Kansas City	4	16	3.00
Minneapolis	3½	16	3.20
Atlanta	3½	16	2.30
New Orleans	4	16	3.63
Dallas	4	18	3.57
Baltimore	3½	16	3.60
Montreal	4	16	4.60
Detroit	3½	16	3.40

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel — 1½ In. — Current	One Yr. Ago	¾ In. — Current	One Yr. Ago	Sand — Current	One Yr. Ago
New York	$3.00	$2.00	$3.00	$2.00	$1.50	$1.25
Denver	1.40	1.60	1.80	1.60	1.00	1.25
Chicago	2.15	1.35	2.15	1.35	2.15	1.35
Kansas City	3.25	2.50	3.75	3.00	1.25†	1.00
St. Louis	1.50	1.78	1.55	1.82	1.55*	1.68
Seattle, per ton	1.25	1.25	1.25	1.25	1.25	1.25
Dallas	2.50	2.00	2.50	2.00	2.00	1.50
Minneapolis	2.00	1.25	1.35	1.35	1.25	.60
Cincinnati	.....	.....	1.50	....	1.45	1.35
San Francisco	1.50	1.15	1.50	1.15	1.50	1.00
Boston	3.50	1.60‡	3.00	1.65‡	2.75	.....
New Orleans	3.00	2.40	.....	2.40	1.40	1.20
Los Angeles	1.25	1.02	1.25	1.02	1.15	.70
Atlanta, per ton	2.25	2.00	2.25	.....	1.15	1.10
Detroit	2.50*	1.90	2.50*	1.90	2.50*	1.80
Baltimore	1.40‡	.....	1.60‡	1.60	.70	.....
Montreal, per ton	1.45*	1.20	....	....	1.90‡	1.00

* Fine white sand, Pacific and Ottawa, per ton $6.
† Kaw River sand is $1.75 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.90@2.00	$1.65@1.75	$2.15	$1.75@1.85
Chicago	2.35	1.30	2.50	1.30
St. Louis	1.90	1.35	1.90	1.35
Dallas	3.50	2.25	3.50	2.25
San Francisco	1.50	1.15	1.50	1.15
Boston	3.00*(del)	3.00	3.00 (del)	3.00
Minneapolis	2.25†	1.15	2.50	1.25
Denver	3.75	....	3.75	1.60
Kansas City	2.35	1.90	2.35	2.00
Seattle (Del.)	3.50	1.50	3.50	1.50
Cincinnati	....	....	1.65	....
Atlanta	3.10*	2.35	....	2.60
Los Angeles	1.60*	1.12	1.70*	1.12
Detroit	2.00*	1.20	2.00*	1.20
Baltimore	1.60*	....	2.00*	....
Montreal	2.30*	1.90	2.55*	2.15

* Per ton. † Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in.

CRUSHED SLAG—Price of crushed slag per net ton in carload lots:

	1½-In.	¾-In.	Roofing	Sand
Lebanon or Bethlehem, Pa	$1.00	$1.00	$2.50	$0.90
Easton, Pa	1.20	1.20	3.00	1.10
Buffalo, N. Y	1.25	1.00	2.00	1.00
East Canaan, Conn	1.25	1.35	3.50	1.10
Birmingham, Ala	1.25	1.25	2.05	1.00
Toledo, Ohio	1.50	1.50	....	....

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 200-Lb. Barrel Finished	Lump per 200-Lb. Barrel Common
New York	$19.50	$18.50	$3.50*-at plant	$3.30*
Kansas City	27.20	26.20	2.50	2.40
Chicago	....	....	....	1.75
St. Louis	25.00	21.00	....	2.50
Boston	27.50	25.25	3.70†	3.40†
Dallas	....	25.00	.....	2.50†
Cincinnati	17.20	16.20	.....	13.20‡
San Francisco	23.50	19.50	.....	2.25
Minneapolis	24.00	19.00	2.90†	2.30†
Denver	30.00	.....	.95 (bu.)	.95 (bu.)
Detroit	20.00	18.00	1.80†	1.60†
Seattle	30.00	.....	....	1.85†
Los Angeles	2.75†	2.20†	2.75†	2.00†
Baltimore	23.00	.....	....	12.50‡
Montreal	25.00	25.00	15.00‡	15.00‡
Atlanta	22.50	.....	.....	.....
New Orleans	16.00	.....	2.35	.....

* 300-lb. barrels. †Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel with 25c per ton off on hydrated.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f. o. b., exclusive of bags:

	Current	One Year Ago
Minneapolis (Austin)	$1.50	$1.45
Kansas City (Ft. Scott)	1.60	1.40
New Orleans	3.36	2.52
Atlanta (Magnolia)	1.90	....
Cincinnati (Louisville)	2.85	1.50
Boston (Rosedale)	2.35	....

PORTLAND CEMENT—Current prices are for barrels in carload lots, *without* bags, to contractors:

	Current Without Bags	One Month Ago Without Bags	One Year Ago Without Bags
New York (del.)	$4.10*	$3.80	$2.30
Jersey City (del.)	3.22	2.97	2.27
Boston	3.32	2.60	2.42
Chicago	2.15	2.15	2.00
Pittsburgh	2.20	2.20	2.05
Cleveland	2.42	2.42	2.32
Detroit	3.00	3.00	2.08
Indianapolis	2.42	2.42	2.27
Toledo	2.28	2.28	2.12
Milwaukee	2.20	2.20	2.11
Duluth	2.20	2.20	2.10
Peoria	2.32	2.32	2.12
Cedar Rapids	2.40	2.40	2.18
Davenport	2.36	2.36	2.14
St. Louis	2.85	2.65	2.20
San Francisco	2.88	2.88	2.43
New Orleans	3.24	3.52	2.36
Minneapolis	2.42	2.22	2.20
Denver	3.80	2.82	2.67
Kansas City	2.76	2.76	2.26
Seattle	3.03	3.03	2.53
Dallas	2.15	2.15	2.03
Atlanta	2.70	2.70	2.50
Cincinnati	2.85	2.85	2.90
Los Angeles	3.10	3.10	....
Baltimore (del)	3.28†	3.85	.....
Montreal (including bags)	3.00	3.00†	.....
Detroit	4.00	....	....

NOTE—Bag charge is generally 2x15c. each. *Delivered Manhattan, The Bronx or Brooklyn; bags 25c. each. †Including bags.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH by 4-INCH MESH

Style Number	Sectional Area Square Inches per Ft.	Width	New York* Pittsburgh	Chicago	St. Louis	Dallas	San Francisco
032	0.032	$0.92	$1.16	$0.98	$0.99	$1.13	$1.32
049	0.049	1.18	1.48	1.26	1.26	1.43	1.67
068	0.068	1.44	1.86	1.53	1.56	1.79	2.06
093	0.093	1.85	2.39	1.97	2.00	2.41	2.65
126	0.126	2.28	3.02	2.43	2.47	2.92	3.28
153	0.153	2.72	3.59	2.90	2.95	3.48	3.93
180	0.180	3.12	4.13	3.33	3.39	3.99	....
245	0.245	4.12	5.44	4.40	4.47	5.27	....
287	0.287	4.76	6.29	5.08	5.16	6.10	6.86
336	0.336	5.52	7.30	5.89	5.99	7.06	.....
395	0.395	6.40	8.45	6.83	6.94	8.19	.....
			PAVING				
036P	0.036	$0.71	$0.92	$0.76	$1.77	$0.80	.....
053P	0.053	1.00	1.28	1.06	1.08	1.12	.....
072P	0.072	1.26	1.66	1.34	1.37	1.46	.....
097P	0.097	1.62	2.12	1.73	1.76	1.88	.....
049R	0.049	1.00	1.28	1.06	1.08	1.12	.....
067R	0.067	1.26	1.65	1.14	1.37	1.46	.....
089R	0.089	1.62	3.11	1.73	1.76	1.88	.....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

‡Note—Practically no triangle mesh in New York market

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York‡ Current Carloads	New York‡ Less Carloads	Chicago	St. Louis	San Francisco	Dallas
27	233	$32.10	$32.20*	$33.60†	$35.00	$36.00	$32.75
26	250	33.45	33.65*	35.20†	36.00	.....	34.50
25	300	34.90	35.00*	36.90†	.....	39.00	36.75
24	340	36.50	36.65*	40.00†	39.00	44.00	39.25
22	450	39.60	39.80*	45.10†	.....	.....	43.30

* Delivered on job.

†Galvanized is $8 per 100 yd., additional.

*Note—Practically no metal lath in New York market.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	Chicago	Dallas	St. Louis	San Francisco
½ and larger	$2.35@$3.75	$3.52@$5.00	$3.37@$3.90	$3.87	$4.75	$5.30
⅝	2.40@3.75	3.57@5.00	3.42@4.00	3.92	4.80	5.35
¾	2.45@3.75	3.62@5.00	3.47@4.05	3.97	4.95	5.40
⅞	2.60@3.75	3.77@5.00	3.62@4.20	4.12	5.00	5.55
1	2.85@3.75	4.02@5.00	4.07@4.60	4.57	5.05	5.80

Twisted bars cut to length take extra of 2½c. per 100 lb.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$3.75	$3.50	$4.25	½	$4.00	$3.75	.....
⅝	3.80	3.55	4.30	¾	4.25		
1	2.85	3.60	.....				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Block 3-inch	Paving Block 4-inch
New York	$25.00	$25.00	$15.00	$48.50*	$52.50*
New Orleans	25.00	24.50	17.50	.....	.....
Chicago	16.00	15.00	12.00	.....	39.51
St. Louis, salmon	16.00†	16.00	10.00	.....	37.00
Denver	17.00	17.00	13.00	.....	.....
Dallas	24.00	24.00	18.00	.....	.....
San Francisco	18.00	18.00	12.50	.....	44.38
Los Angeles	13.50	13.50	12.50	.....	.....
Boston	32.00	32.00	18.00	51.00	55.00
Minneapolis	24@26	21.00	13.00	.....	.....
Kansas City	22.00	22.00	15.00	.....	.....
Seattle	15.00	15.00	15.00	44.50	53.50
Cincinnati	24.00	24.00	16.00	.....	.....
Montreal (del.)	16.00	16.00	15.00	.....	.....
Detroit	23.00	23.00	19.00	40.00	48.00
Baltimore (del.)	20.00–25.00	22.50	18.00	40.00	44.00

*For paving blocks 3½x8½x3 and 3½x8½x4 respectively. †Hard brick $20.50 in St. Louis.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current on Trucks	New York One Year Ago	Chicago	St. Louis	San Francisco	Factory Perth Amboy N. J.
4x12x12	.....	$0.11475	$0.1516	None	$0.1425	.....
6x12x12	.....	.153	.2274	"	.1800	.....
8x12x12	.....	.204	.2728	"	.2525	.....
10x12x12	.....	.....	.3411	"	.....	.....
12x12x12	.....	.....	.4093	"	.....	.....

Note—New York and Perth Amboy quotations will be given next month.

	4x12x12	8x12x12	12x12x12
Boston	$0.156	$0.192	$0.51
Minneapolis	.1152	.2016	.3168
Cincinnati	.125	.2186	.3286
Kansas City	No prices obtainable		
Denver	Quotations withdrawn		
Seattle	.09	.175	.30
Atlanta	.115	.19	.28
Los Angeles	.10	.175	....
New Orleans	.23	.28	.30
Detroit	20 per cent. off list		
Montreal	.22	.30	.36
Baltimore	.275	.485	.62

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco
Beams, 3 to 15 in.	$2.45@$3.10	$4.47	$3.47	$4.04	$3.97	$5.85
Channels, 3 to 15 in.	2.45@ 3.10	4.47	3.47	4.04	3.97	5.85
Angles, 3 to 6 in., ¼ in. thick	2.45@ 3.10	4.47	3.47	4.04	3.97	5.85
Tees, 3 in. and larger	2.45@ 3.75	4.52	3.52	4.09	4.02	5.85
Plates	2.65@ 4.00	4.67	3.67	4.24	4.17	6.30

RIVETS—The following quotations are per 100 lb.:

	STRUCTURAL						
	Mill Pittsburgh	New York Current	New York One Yr. Ago	Warehouse Chicago	Warehouse St. Louis	Warehouse San Francisco	Warehouse Dallas
½ in. and larger	$4.50	$6.00	$4.72	$5.62	$5.69	$6.65	$7.50
	CONE HEAD BOILER						
½ in. and larger	4.60	7.10	4.82	5.72	5.79	6.75	7.50
⅝ and ¾	4.75	7.25	4.97	5.87	5.94	7.00	7.50
½ and ⅞	5.00	7.50	5.32	6.22	6.19	7.25	7.75

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	New York	Chicago	San Francisco	Dallas	Montreal
Wire	$3.25@$4.50	$8.50	$4.15	$6.00	$6.90	$4.95
Cut		10.00	5.85	8.50	6.40	5.00

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows at manufacturing points:

	New York 1-Ply c.l.	New York 2-Ply l.c.l.	New York 3-Ply c.l.	Philadelphia 1-Ply c.l.	Philadelphia 2-Ply l.c.l.	Philadelphia 3-Ply c.l.
No. 1 grade	$2.50	$3.00	$3.55	$2.40	$2.90	$3.45
No. 2 grade	2.25	2.70	3.20	2.15	2.60	3.10

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $4.25 per roll in carload lots and $4.50 for smaller quantities.

Shingles, red and green slate finish, cost $7.75 per square in carloads; $8.00 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

Tar felt (14 lb. per square of 100 sq.ft.) per roll	$3.50
Tar pitch (in 400-lb. bbl.) per 100 lb.	2.00
Asphalt pitch (in barrels) per ton	54.50
Asphalt felt (light) per ton	123.00
Asphalt felt (heavy) per ton	127.00

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Current	New York One Yr. Ago
No. 10	$3.75@$7.00	$7.09	$7.02	$8.25	$6.62@$8.00	$4.57
No. 12	3.80@ 7.05	7.09	7.07	8.30	6.67@ 8.05	4.62
No. 14	3.85@ 7.10	7.09	7.12	8.35	6.22@ 8.10	4.67
No. 16	3.95@ 7.20	7.09	7.17	8.45	6.82@ 8.20	4.77
Black						
*Nos. 18 and 20	4.15@ 7.30	8.10	7.80	9.35	7.80@ 9.50	5.30
*Nos. 22 and 24	4.20@ 7.35	8.10	7.85	9.40	7.85@ 9.55	5.35
*No. 26	4.25@ 7.40	8.10	7.90	9.45	7.90@ 9.60	5.40
*No. 28	4.35@ 7.50	8.10	8.00	9.55	8.00@ 9.70	5.50
Galvanized						
No. 10	4.70@ 8.00	9.60	8.50	.....	8.55@11.00	6.20
No. 12	4.80@ 8.10	9.60	8.60	10.10	8.65@11.00	6.25
No. 14	4.80@ 8.10	9.60	8.60	10.10	8.65@11.10	6.30
Nos. 18 and 20	5.10@ 8.40	9.60	8.90	10.40	8.90@11.40	6.60
Nos. 22 and 24	5.25@ 8.55	9.60	9.05	10.55	9.05@11.55	6.75
*No. 26	5.40@ 8.70	9.60	9.20	10.70	9.20@11.70	6.90
*No. 28	5.70@ 9.00	9.60	9.50	11.00	9.50@12.00	7.20

*For painted corrugated sheets add 30c. per 1000 lb. for 5 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel (5 bbl.)	$1.53	$2.15	$1.95	$2.53
5-gal. cans	1.56*	2.28	2.15	2.73

*To this price must be added the cost of the cans (returnable), $2.25 for case of six.

WHITE AND RED LEAD—Base price per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	15.50	17.00	13.00	14.50	15.50	13.00
25 and 50-lb. kegs	15.75	17.25	13.25	14.75	15.75	13.25
12½-lb. keg	16.00	17.50	13.50	15.00	16.00	13.50
5-lb. cans	18.50	20.00	15.00	16.50	18.50	15.00
1-lb. cans	20.50	22.00	16.00	17.50	20.50	16.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	$36.50	$37.00	$38.00	$40.00
3x6 and 8	37.50	38.00	39.00	41.00
4x4-6 and 8	38.00	39.00	40.00	42.00
3x10 and 12	38.00	39.00	40.00	42.00
3x14	38.50	39.50	40.50	42.50
4x10 and 12	38.00	39.00	40.00	42.00
4x14	39.00	40.00	41.00	43.00

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$37.50	$39.50	$40.50
6x14	39.00	41.00	41.50
8x10	37.50	39.50	40.50
8x14	39.00	41.00	41.50

New York, Chicago and St. Louis

	New York* Southern Pine 20 Ft. and Under	New York* Southern Pine 22-24 Ft.	Chicago Southern Pine 20 Ft. and Under	Chicago Southern Pine 22-24 Ft.	St. Louis Yellow Pine 20 Ft. and Under	St. Louis Yellow Pine 22-24 Ft.
3x 4 to 8x 8	$53.00	$54.00	$55.00	$55.00	$50.00	$51.00
3x10 to 10x10	57.00	58.00	59.00	60.00	55.00	56.00
3x12 to 12x12	65.00	66.00	63.00	64.00	57.50	58.50
3x14 to 14x14	70.00	71.00	68.00	69.00	65.00	66.00
3x16 to 16x16	75.00	76.00	74.00	75.00	67.50	68.50
3x18 to 18x18	85.00	86.00	79.00	80.00	72.50	73.50
4x20 to 20x20	90.00	91.00	.....	.....	.....	.....

* Prices from Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under P.	Fir
Boston	$68.00	$65.00	.....	$62.50	$80.00	$70.00
Kansas City	51.00	51.25	$51.25	51.25	60.00	51.25
Seattle	.....	34.00	.....	.....	.....	35.00
New Orleans	46.00	.....	.....	.....	54.00	.....
Atlanta	62.50	64.50	66.00	76.00	79.50	82.00
Baltimore	75.00	.....	.....	.....	87.50	.....
Cincinnati	45.00	50.00	50.00	.....	55.00	55.00
Montreal	80.00	80.00	65.00	75.00	73.00*	100.00
Los Angeles†	.....	57.00	.....	.....	.....	59.00
Detroit	67.00	.....	.....	.....	79.00	79.00
Denver	.....	43.75	.....	.....	.....	44.75

	1-In. Rough, 10 In. x 16 Ft. and Under P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	$110.00	$102.00	$52.00	$100.00	.....
Kansas City	102.00	106.50	106.50	113.00	$112.75
Seattle	.....	37.50	.....	.....	38.50
New Orleans	.....	42.00	.....	46.00	.....
Atlanta	85.00	90.00	.....	77.50	87.50
Baltimore (box)	57.50@65	.....	.....	57.50@62.50	.....
Cincinnati	50.00	55.00	50.00	45.00	60.00
Montreal	75.00	75.00	66.00	78.00	78.00
Los Angeles	.....	58.00	.....	.....	.....
Detroit	50.00	.....	49.00	44.00	.....
Denver	.....	42.75	.....	.....	40.25

* Montreal—Up to 32 ft.; over which, $3.00 per M. increase up to 30 ft.

† Base price, 2 x 3's and 2 x 4's, 8 to 14 ft., is $54.00

Detroit—Dimension stuff ranges from $60 to $68. See "ups and downs in the market."

Minneapolis—Fir 1-in. x 8@10 in., 8@20 ft., No. 1 common, $42; No. 2, $36.50. Y. P., 2 x 4, No. 1, $41.50; 2 x 6 and 2 x 8, $41; 2 x 10, $42.50. Fir, 12 x 12 x 32 ft., rough, $46.50.

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59	Detroit	.33
		Baltimore	.27½

Note—Add 3% transportation tax. * Minimum carload, 50,000 lb.

CONTRACTORS' SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$2.55@$3.65	$2.55@3.65	$2.25

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Hercules red strand, all constructions	20%
Patent flattened strand, special and cast steel	20%
Patent flattened strand, iron rope	5%
Plow steel round strand rope	30%
Special steel round strand rope	30%
Cast steel round strand rope	22½%
Iron strand and iron tiller	5%
Galvanized iron rigging and guy rope	+12%

San Francisco: Galvanized Iron Rigging and Guy Ropes, +17½%; Bright Plow, 25% off.

Chicago, +12½ on galvanized, 30 off on bright.

MANILA ROPE—For rope smaller than ½-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¾-in., 8 ft., ½-in., 6; ⅜-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ½-in. and larger, in 1200-ft. coils:

Boston	$0.30½	Kansas City	0.30½
New York	.29	New Orleans	$0.28½
Chicago	.27½	Los Angeles	.31
Minneapolis	.29½	Seattle	.28
San Francisco	.27	St. Louis	.26½
Atlanta	.29½	Montreal	.35½
Denver	.30	Detroit	.26
Cincinnati	.35	Baltimore	.27½

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	80%	Black Powder
New York	.....	$0.31½	$0.34½	.....	$2.30
Boston	.....	.28	.31	$.295	2.40
Kansas City	.2475	.27	30	.34	2.40
Seattle	.18	.21½	.24½	.29	2.45
Chicago	.2175	.2525	.2975	.34	2.45
Minneapolis	.2067	.2476	.2782	.....	2.80
St. Louis	.2175	.26	.285	.295	1.90
Denver	.2175	.2575	.2875	.33	2.70
Dallas	.265*	.275	.3025	.....	2.60
Los Angeles	.22	.27	.31	.....	2.95
Atlanta	.22	.245	.265	.....	2.55
Baltimore	No shipments or quotations				
Cincinnati	.2275	.2525	.2725	.....	2.30
Montreal	.30	.32	.37	.38	4.10
New Orleans	.1975	.2225	.2425	.....	.....

* 30 Per Cent.

POLES—For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft	$9.00
12-in. butts, 6-in. tops, length 30-40 ft	11.50
12-in. butts, 6-in. tops, length 41-50 ft	12.50
14-in. butts, 6-in. tops, length 51-60 ft	21.00
14-in. butts, 6-in. tops, length 61-71 ft	25.50

	Dallas
6-in. x 20-ft	$4.60
6-in. x 30-ft	7.10
8-in. x 30-ft	8.45
8-in. x 35-ft	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$30.00	$28.00	$28.00
Stove plate	24.50	28.00	30.50
No. 1 machinery cast	39.00	36.00	37.00
Machine shop turnings	14.50	10.00	13.00
Cast borings	17.00	13.00	15.50
Railroad malleable cast	30.00	27.00	27.00
Re-rolling rails	35.50	37.00	33.00
Relaying rails	54.00	52.50@57.50	50@55

SHIP SPIKES—Current prices per 100 lb.

	San Francisco		Seattle
In.	Galv.	Black	Black
½	$9.20	$8.50	$8.55
⅝	8.75	6.75	8.25
¾	8.60	6.60	8.30

Pittsburgh base, $4.50 per 100 lb.

LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

Cities	Brick-layers	Car-penters	Hoisting Engineers	Hod Carriers	Pile Drivers	Structural Iron Workers	Common Labor	Remarks
Atlanta	$0.90S	$0.60–75P	$0.50–65P	$.40–.45P	$0.60–.65	$0.75	$0.35S	Atlanta—Great activity in construction. Common labor scarce.
Baltimore	1.00E	.80–90E	.87½E	.46–.54E	.74P	1.00E	.35–.45E	Baltimore—Satisfactory supply of labor.
Boston	1.10E	1.00E	1.15@1.25E	.75E	1.25E	1.15@1.25E	.67½@70E	Boston—Labor supply sufficient.
Cincinnati	1.25S	.90E	.75E	.70E	.....	.87½E	.60S	Cincinnati—Common labor scarce.
Chicago	1.25	1.25				1.25	1.00	Chicago—Labor plentiful but independent. Contractors report increased efficiency.
Cleveland	1.00S	.90S	1.00E	.57½E	.80E	1.00E	.57½E	
Dallas	1.25S	1–1.25S	1.00E	.60E	1.00E	1.25S	.44–.60S	Dallas—Common labor very scarce.
Denver	1.25E	1.16½E	1.16½@1.18½E	.75@81½E	.....	1.15½E	.50@.56½	Denver—No strikes pending.
Detroit	1.25P	1.00P	1.10P	.70P	1.10P	1.25P	.65P	Detroit—All classes of labor is plentiful owing to slackness in construction because of lack of material. Practically no cement in car lots. Automobile and allied shops are absorbing surplus labor at higher rates than paid on construction work.
Kansas City	1.12½	1.00	1.00	.90	1.00	1.10	.75	
Los Angeles	1.25P	.87½P	.87½P	1.00P	.87½P	.87½P	.56½–.62½E	Los Angeles—Rates shown are union; non-union a little less; but union scale prevails generally.
Minneapolis	1.25	1.00P	1.00	.75		1.00	.60	Minneapolis—Increase in common-labor wage expected in a few weeks.
Montreal	1.00	.80–.85	.65S	.50@.60S	.50	.50–.65	.45–.55P	Montreal—All strikes settled.
New Orleans	.85P	.95P	1.00P	.50P	1.00P	1.00P	.40P	New Orleans—All labor plentiful.
New York	1.25	1.12½	1.25	.87½	1.12½	1.12½	.75–.80	New York—Agreement of Nov. 20, 1919, was modified as shown, effective May 1, 1920. Excavators, 75c.; Concrete workers, 81½c.
Pittsburgh	1.50	1.20	90S	.80S	1.00	1.25S	50S	Pittsburgh—Indications are that all trades will be back at work soon.
St. Louis	1.25	1.25	1.12½–1.25	.70	1.00–1.25	1.25	.52–.75	St. Louis—Bricklayers' helpers receive 80c.; Carpenters' helpers, 67½c.; as to hoisting engineers the rates are $1.12½ for one drum, $1.25 for two drums, and $1.21½ for road roller. Pile drivers receive $1.00 on wood and concrete, $1.25 on steel. Unskilled labor is classified as follows: Common, 52c.; construction, 67½c.; pipe laying, 75c.; track, 53c.
San Francisco	1.25E	1.06½E	1.12½E	.93½E	1.06½E	1.12½E	.81½E	San Francisco—All lines busy. Common labor quotation is for union labor
Seattle	1.12	.93½	.94	.75–.80	.90	1.00	.75S	

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 12	Hankinson, N. D.	Aug. 5
Aug. 12	Fayette Mo.	Aug. 5
Aug. 23	Middletown, N. Y. Adv. Aug. 5.	Aug. 5
Aug. 24	Cedarburg, Wis.	Aug. 5
Aug. 25	Marcy, N. Y.	July 29

SEWERS

Aug. 9	Pontiac, Mich.	July 29
Aug. 10	St. Louis, Mo.	July 29
Aug. 10	Jersey City N. J.	Aug. 5
Aug. 10	Darlington, Wis	July 29
Aug. 11	Joliette, Que.	July 22
Aug. 12	Rush City, Minn.	July 29
Aug. 12	Hankinson, N. D.	Aug. 5
Aug. 13	Bedford Hills, N. Y. Adv. Aug. 5.	Aug. 5
Aug. 13	Kilbourn, Wis.	Aug. 5
Aug. 16	Lebanon, Pa. Adv. Aug. 5.	Aug. 5
Aug. 17	Armour, S. D.	July 29
Aug. 23	Allentown, Pa. Adv. Aug. 5.	Aug. 5
Aug. 25	Reading, Pa. Adv. Aug. 5.	Aug. 5

BRIDGES

Aug. 10	Pottsgrove, Pa.	Aug. 5
Aug. 10	Glenmore, N. J.	Aug. 5
Aug. 10	Lumkin, Ga.	Aug. 5
Aug. 10	Oregon	Aug. 5
Aug. 10	Shelby, Mont.	Aug. 5
Aug. 11	Illinois	Aug. 5
Aug. 11	Dungannon, Va.	July 29
Aug. 14	Junction City, Kan.	Aug. 5
Aug. 17	Rochester, N. Y. Adv. July 22 to Aug. 5.	July 22
Aug. 18	Augusta, Me. Adv. Aug. 5.	Aug. 5
Aug. 20	Missouri	Aug. 5
Aug. 20	Bristol, Conn.	July 15
Aug. 23	Claxton, Ga.	July 22
Aug. 23	Bonham Tex.	Aug. 5
Aug. 24	Harrisburg, Pa. July 29 and Aug. 5.	July 29
Aug. 25	North Carolina Adv. Aug. 5.	Aug. 5
Aug. 25	Powys (Trout Run P. O.), Pa.	Aug. 5
Aug. 25	Reading Pa. Adv. Aug. 5.	Aug. 5
Sept. 6	Nenana, Alaska	Aug. 5

STREETS AND ROADS

Aug. 9	South Pasadena, Cal.	July 22
Aug. 9	Maryland Adv. July 22 to Aug. 5.	July 29
Aug. 9	Red Lodge, Mont.	Aug. 5
Aug. 9	Maryland Adv. Aug. 5.	Aug. 5
Aug. 9	New Madrid, Mo.	Aug. 5
Aug. 10	New York, N. Y.	Aug. 5
Aug. 10	Ludington, Mich.	July 29
Aug. 10	Hastings, Minn.	July 29
Aug. 10	Princeton, W. Va.	July 29
Aug. 10	St. Louis, Mo.	July 22
Aug. 10	New York, N. Y. Adv. July 29 and Aug. 5.	Aug. 5
Aug. 10	West Orange, N. J. Adv. Aug. 5.	Aug. 5
Aug. 10	Newark, N. J.	Aug. 5
Aug. 10	Knoxville, Ia.	Aug. 5
Aug. 10	Oklahoma	Aug. 5
Aug. 10	Forsyth, Mont.	Aug. 5
Aug. 10	Groesbech, Tex.	Aug. 5
Aug. 10	Oregon	Aug. 5
Aug. 11	Summerville, Ga.	Aug. 5
Aug. 11	Union, S. C.	Aug. 5
Aug. 11	Laurens, S. C.	Aug. 5
Aug. 11	Princeton, W. Va.	Aug. 5
Aug. 11	Bloomfield, Ia.	July 29
Aug. 11	Belvidere, N. J. Adv. July 22 to Aug. 5.	July 29
Aug. 11	Dayton, O.	Aug. 5
Aug. 11	Baltimore, Md.	Aug. 5
Aug. 11	Illinois	Aug. 5
Aug. 11	Brooklyn, N. Y.	Aug. 5
Aug. 12	New York, N. Y.	Aug. 5
Aug. 12	Walker, Minn.	Aug. 5
Aug. 12	Keosaqua, Ia.	Aug. 5
Aug. 12	Jackson, O.	Aug. 5
Aug. 13	Burlington, Ia.	Aug. 5
Aug. 13	Ontonagon, Mich.	Aug. 5
Aug. 13	New York, N. Y.	Aug. 5
Aug. 14	Superior, Wis.	Aug. 5
Aug. 14	Charleston, W. Va. Adv. July 22 to Aug. 5.	July 22
Aug. 14	Opelousas, La. Adv. July 15 to Aug. 5.	July 15
Aug. 14	Arkansas	July 29
Aug. 14	Charleston, W. Va.	July 29
Aug. 14	Michigan	July 29
Aug. 15	Monticello, Miss.	July 29
Aug. 15	Denver, Colo.	Aug. 5
Aug. 17	Columbus, O.	Aug. 5
Aug. 17	Lecompte, La.	Aug. 5
Aug. 17	Sault Ste Marie, Mich.	Aug. 5
Aug. 17	Decatur, Ga.	Aug. 5
Aug. 17	Lapeer, Mich.	Aug. 5
Aug. 17	Leavenworth, Kan.	Aug. 5
Aug. 17	Decatur, Ga.	Aug. 5
Aug. 18	Arkansas	Aug. 5
Aug. 18	Carrollton, Ga.	July 29
Aug. 18	Canyon, Tex.	July 29
Aug. 18	Three Rivers, Que.	Aug. 5
Aug. 20	Tennessee	Aug. 5
Aug. 20	Rutherfordton, N. C.	Aug. 5
Aug. 20	Ohio	July 29
Aug. 20	Amarillo, Tex.	July 29
Aug. 20	Amarillo, Tex. Adv. July 29 to Aug. 5.	July 22
Aug. 20	Oswego, Kan.	Aug. 5
Aug. 20	St. Joseph Adv. Aug. 5.	Aug. 5
Aug. 24	Webster Springs, W. Va. July 29 and Aug. 5.	July 29
Aug. 24	Missouri	Aug. 5
Aug. 24	Columbia, S. C. Adv. Aug. 5.	Aug. 5
Aug. 27	Troy, Kan.	Aug. 5
Aug. 29	North Bergen, N. J.	Aug. 5
Sept. 3	Olathe, Kan.	Aug. 5

EXCAVATION AND DREDGING

Aug. 7	Mt. Carmel, Ill.	July 22
Aug. 9	Clarion, Ia.	Aug. 5
Aug. 10	Waseca, Minn.	July 29
Aug. 14	Rockwell City, Ia.	July 29
Aug. 14	St. Helens, Ore.	Aug. 5
Aug. 18	Albert Lea, Minn.	Aug. 5

INDUSTRIAL WORKS

Aug. 8	Brantford, Ont.	July 29
Aug. 9	Abilene, Tex.	Aug. 5
Aug. 11	Cleveland Heights, O.	July 29
Aug. 12	St. Thomas, Ont.	Aug. 5
Aug. 15	Port Arthur, Ont	July 22
Aug. 17	New Orleans, La.	Aug. 5
Sept. 1	Hutchinson, Kan.	Feb. 19

BUILDINGS

Aug. 9	Oberon, N. D.	July 8
Aug. 9	East Moline, Ill.	July 29
Aug. 9	McKeesport, Pa.	July 29
Aug. 9	Toledo, O.	Aug. 5
Aug. 10	Detroit, Mich.	July 29
Aug. 10	Chicago, Ill.	July 15
Aug. 10	Sidney, O.	Aug. 5
Aug. 10	Ashley, N. D.	July 29
Aug. 11	Detroit, Mich.	July 29
Aug. 13	Prospect, O.	July 22
Aug. 14	Prospect, O.	Aug. 5
Aug. 15	Mitchell, S. D.	Aug. 5
Aug. 15	Hinckley, Minn.	Aug. 5
Aug. 15	Montreal, Que.	July 22
Aug. 15	Verdun, Que.	July 29
Aug. 16	Sioux City, Ia.	June 17
Aug. 16	Kalamazoo, Mich.	Aug. 5
Aug. 19	Coburn, Ia.	Aug. 5
Aug. 19	Syracuse, N. Y.	Aug. 5
Aug. 21	London, Ont.	July 22
Aug. 21	Rolla, N. D.	Aug. 5
Sept. 1	Cedar Rapids, Ia.	Aug. 5
Sept. 3	Ft. Wayne, Ind.	July 29
Sept. 15	Denver, Colo.	Aug. 5

FEDERAL GOVERNMENT WORK

Aug. 9	Changes in Post Office—St. Louis, Mo.	July 29
Aug. 9	Road Work—Montana	Aug. 5
Aug. 11	Temporary Storehouse — Spec. 4229—Pearl Harbor, H. T.	July 8
Aug. 11	Tracks—Spec. 4196—South Boston, Mass.	July 22
Aug. 11	Electric Underground Distributing System — Spec. 4240—Hampton Roads, Va.	July 22
Aug. 11	Boiler and Stokers—Spec. 4124—Portsmouth, N. H.	July 22
Aug. 11	Harbor Development—Spec. 4136—Great Lakes, Ill.	July 22
Aug. 16	Diversion Dam—Florence, Ariz.	July 15
Aug. 16	Remodeling Boiler — Ft. Stanton, N. M.	July 29
Aug. 17	Boiler—Cleveland, O.	Aug. 5
Aug. 17	Road Work—Washington, D. C. Adv. Aug. 5.	Aug. 5
Aug. 18	Pier — Spec. 4165 — Guantanamo Cuba	July 22
Aug. 18	Cast Iron Ballast Balls, etc. —Tompkinsville, N. Y.	Aug. 3
Aug. 19	Steel Bell Buoys, etc. — Tompkinsville N. Y.	Aug
Aug. 23	Stern Wheel Steel Towboat Hull—Vicksburg, Miss. Adv. July 29 and Aug. 5	Aug
Aug. 23	Remodeling Post Office — South Bend, Ind.	Aug
Aug. 24	Canal—Caldwell, Idaho.	July
Aug. 25	Station, etc.—Fairport, O. Adv. Aug. 5.	Aug
Aug. 25	Steam Distributing and Condensate Return System — Spec. 4258—Hampton Rds, Va. Adv. Aug. 5.	Aug
Aug. 26	Return Flue Boilers—Memphis, Tenn. Adv. Aug. 5.	Aug
Aug. 26	Steel Hull—Memphis, Tenn. Adv. Aug. 5.	Aug
Aug. 26	Dredging — Providence, R. I. Adv. July 29 and Aug. 5.	Aug
Aug. 27	Remodeling Post Office and Court House — Roanoke, Va. Adv. Aug. 5	Aug
Aug. 30	Stern Wheel Steamboat — St. Louis, Mo.	Aug
Sept. 3	Post Office—Columbia, S. C.	Aug

MISCELLANEOUS

Aug. 9	Culverts—St. Joseph, Mo.	July 29
Aug. 9	Lead Pipe—St. Paul, Minn.	Aug. 5
Aug. 10	Buckeye Traction Ditcher—Nicollet, Minn.	Aug. 5
Aug. 11	Fire Apparatus—Phillipsburg, N. J. Adv. Aug. 5.	Aug. 5
Aug. 11	Gasoline—Brooklyn, N. Y.	Aug. 5
Aug. 17	Motor Driven Pump, Oil Switches, Air Compressor—Florence, Wis.	July 29
Aug. 17	Piles—Detroit, Mich.	July 29
Aug. 17	Wharf—Bass River, N. S.	Aug. 5
Aug. 17	Wharf — Campbell River, B. C.	Aug. 5
Aug. 17	Wharf — Grahm Landing, B. C.	Aug. 5
Aug. 17	Wharf—Kootenay, B. C.	Aug. 5
Aug. 17	Wharf—Nandimo, B. C.	Aug. 5
Aug. 17	Lamp Post and Gas Mantles —St. Louis, Mo.	Aug. 5
Aug. 19	Dam—Montreal, Que.	Aug. 5
Sept. 15	Street Paving, etc.—Philadelphia, Pa. Adv. Aug. 5.	Aug. 5

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Md., Baltimore—City election Nov. 2, to vote on $15,000,000 bonds to increase water supply. H. G. Perring, City Hall, ch. engr.

O., Barberton—City plans election in August to vote on $1,000,000 bonds to build 3½ mi. reservoir, north of Loyal Oak Rd., 1,400,000,000 gal. capacity, with 26 mi. water shed, and dam 300-400 ft. wide and 35 ft. deep. W. H. Dittoe, State Dept Health, Columbus, ch. engr.

O., Oxford—City plans to build waterworks system, hydraulic development 1,000,000 gal. capacity. About $100,000. L. A. Boulay Co., 1250 Nicholas Bldg., Toledo, engr.

Wis., Colfax—Village rejected bids received June 28, furnishing labor and material building waterworks and sewerage systems. T. Runnung, clk. Noted June 24.

N. D., Bismarck—City Comrs. rejected bids received July 12, building complete waterworks system, to include filtration plant. T. R. Atkinson, city engr. Noted June 17.

Okla., Altus—City had plans prepared improving waterworks system, to include 6½ mi. canal and earth filled diversion dam. About $25,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs. Noted April 1.

Cal., Harper — Newport Heights Irrigation Dist. plans to build 2,000,000 gal. reinforcon. circular reservoir, etc. About $21,400. P. E. Krissby, consult. engr.

Ont., Toronto—City election in January to vote on $8 000,000 by-law to build waterworks system in eastern section of city to include intakes, pumphouse, filters, high and low pressure pumps and reservoirs. R. C. Harris, city engr.

Waterworks (Continued)

BIDS DESIRED

N. Y., Middletown—Until Aug. 23, at office of J. A. Korschen, comr. bd. pub. wks., City Hall, building covered rein.-con. reservoir (250,000 gal. capacity), to include supply and discharge piping, 6 additional filter units with mechanical equipment, substructure reinforcement, etc.; advertised in this issue.

Wis., Cedarburg—Until Aug. 24, by F. Schuette, city clk., improving waterworks system, to include drilling 1,200 ft. well, building rein.-con. reservoir, 50,000 gal. steel tank on 90 ft. steel tower, 20 x 26 ft. brick pumping station, furnishing 300 gal. motor-driven centrifugal pump, valves, hydrants, 105 manholes, 2 sewage disposal tanks, etc. About $200,000. W. G. Kirchoffer, 31 Vroman Blk., Madison, engr.

N. D., Hankinson—Until Aug. 12, by G. W. Rennex, city aud., building waterworks system, involving 25,980 ft. 4-8 in. c.i. pipe, 30 hydrants, 100,000 gal. tank and tower, rein.-con. reservoir, etc. About $50,000. Dakota Eng. & Constr. Co., Valley City, engrs.

Mo., Fayette—Until Aug. 12, by City Council, building 14,000 ft. pipe line, earth filled dam, and intake works. Johnson & Benham, Firestone Bldg., Kansas City, consult. engr. Noted July 29.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**New York**—Dept. Pub. Welfare, Municipal Bldg., New York City, let contract building coal railway and trestle in city home, Blackwell Island and automatic coal railway trestle in Metropolitan Hospital, to A. M. Hazell, Inc., 25 Cortland St., New York City, $17,380 and $23,600 respectively. Noted July 1.

★**O., Eaton**—City let contract building new filtration plant ,to Burgess & Nitle, Columbus. About $25,000. Noted May 27.

★**Wis., Stratford**—Village will build well-reservoir and brick pumping station, also install power pump and gasoline engine. Work will be done by day labor. Noted July 15.

★**Minn., Buffalo**—City let contract improving waterworks system to include 7,525 lin.ft. 4-8 in. Class B, c.i pipe and 16 hydrants, etc., to Phelps-Drake Co., Minneapolis, $17,948. Noted June 29.

★**Ariz., Phoenix**—City Council let contract excavating and backfilling 20 mi. for wood stave pipe line for water supply, to Ford, Morgan & Co., $80,000; 6 mi., to R. E. Shea, $18,000.

★**Ont., Hawksbury**—Town will build waterworks and sewerage systems, involving 15,000 ft. 6 in. c.i. pipe. About $65,000. Work will be done by day labor under supervision of V. E. Belanger, Hawkesbury, engr. Noted July 15.

Sewers

PROPOSED WORK

Mass., Boston—City rejected bids received July 21, building sewers in Saville and Wren Sts.

N. Y., S. I., South Beach—C. D. Van Name, pres. Richmond Boro., St. George, received no bids building large system of sewers, here. About $175,000. Work will be readvertised. Noted July 22.

N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., received no bids July 30, building temporary sewer in Seaside Blvd., from Sea Ave. to point 3,000 ft. west of Sand Lane, etc. Noted July 15.

N. Y., Syracuse—City plans to build sewage pumping station and storm sewers in Solar, Kirkpatrick and Van Rennselaer Sts., cost to exceed $100,000; storm sewers in Longview and Crawford Aves., $25,000; Strathmore Sect., $57,570; Salt Springs Rd. and Ferris Ave., $25,000. H. C. Allen, city engr.

Md., Baltimore—City election Nov. 2, to vote on $26,000,000 bond issue to build sewers, lighting system, schools and engine houses, also pave various streets. H. G. Perring, City Hall, ch. engr.

N. C., East Spencer—City plans to build 7 mi. sewers in various streets. About $25,000. J. B. McCrary Co., 3d Natl. Bank Bldg., Atlanta, Ga., engrs.

O., Akron—City plans to build 740 ft. sewer in Fairmont St., cost $3,640; 324 ft. in Lookout Ave., $1,480; 1,065 ft. in Montrose St., $7,040; 985 ft. in Zeller St., $8,050; 640 ft. in Coventry St., $4,350; 1,200 ft. in Andrus St., $6,025; 8,590 ft. in South Main and Emerling Sts., $47,650; 16,440 ft. in South Arlington Dist., $236,750; 48,400 ft. in Maple St. Dist., $175,000; 64,500 ft. in Bye St. Dist., $233,000; 8,400 ft. in Tallmadge Ave., $84,000; 6,640 ft. in Cuyahoga Falls and North Hill Aves., $30,000; 2,870 ft. in Hickory St., $14,500; 485 ft. in Hickory and Walnut Sts., $2,400; Butler and Oak Sts., $3,300; 1,640 ft. in Bettie and Gage Sts., $86,200; 895 ft. in City View and Magennice Sts., $4,470; 1,370 ft. in Bairs St., $6,850; 3,900 ft. in Glendale Ave., $375,000; 8,400 ft. in Cuyahoga Ave., $56,000. J. E. Root, supt.

O., Greenspring—City plans to build 10 mi. sewers, here, involving concrete and tile block pipe. About $50,000. L. A. Boulay Co., 1250 Nicholas Bldg., Toledo, engrs.

Wis., Colfax—See "Waterworks."

Ont., London—City plans to build rein.-con. sewage disposal plant with either Imhoff tanks or activated sludge. About $75,000. H. A. Brazier, city engr.

BIDS DESIRED

N. Y., Bedford Hills—Until Aug. 13, by W. G. Barrett, pres. bd. mgrs., State Reformatory for Women, repairing sewage disposal plant. L. F. Pilcher, Albany, state archt.; advertised in this issue.

N. J., Jersey City—Until Aug. 10, by city, building sewerage system in Fisk St. Drainage Area. Cost to exceed $25,000. F. Dolan, clk.

Pa., Allentown—Until Aug. 23, by Bd. Trustees, building extensions to sewage treament plant, at State Hospital. H. J. Klopp, supt.; advertised in this issue.

Pa., Lebanon—Until Aug. 16, by Mayor and Council, furnishing 1,400 ft. 39 in. rein.-con. pipe (Contract A); laying 430 ft. Lafayette St. Storm Sewer (Contract B); laying 1,000 storm sewer in 9th Ward (Contract C). P. A. Volcker, city engr.; advertised in this issue.

Pa., Reading—Until Aug. 25 by City Clerk, building house sewer relief trunk line in North 3rd St. E. E. Ulrich, city engr.; advertised in this issue.

Wis., Kilbourn—Until Aug. 13 (change of date), by A. W. Leutgerodt, city clk., building sewers in various streets, including furnishing and laying 98 ft. 10 in. outfall sewer, 5 manholes, building sand rock sewer tunnel, involving 1,623 cu.yd. excav., etc. W. G. Kirchoffer, 22 Carroll St. N., Madison, engr. Noted July 22.

N. D. Hankinson—Until Aug. 12 by G. W. Rennix, city aud., building sewerage system, involving 26,709 ft. 8-15 in. vitr. pipe, 48 man-holes, septic tank, sludge bed, etc. About $30,000. Dakota Eng. & Constr. Co., Valley City, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Northbridge**—Bd. Sewer Comrs. let contract building sewerage system, to McClintock & Woodfall, 15 Court Sq., Boston. About $81,000. Noted July 15.

★**Pa., Phila.**—City let contract building branch sewers in streets as follows: to Estate D. McMahon, P. O. Bldg., Germantown, Cliveden St. from Magnolia to Musgrave Sts., $1,842; R. Bennis, 710 East Chelten Ave., 18th St. from Medary St. to point 180 ft. northeast, $3,970; C. D. Land, 26th and Cambria Sts., Emery St. from Lehigh St. to Phila. & Reading R.R., $3,159, also Wyoming St. from Mascher St. to P. N. & N. Y. R.R., $8,544; C. Ricciardi, 1226 South Juniper St., Mercy St. from Water to 2d Sts., $5,330, Mountain St. from Front to Hancock Sts., $3,257, Sigel St. from 7th to 8th Sts., $3,240, Sigel St. from 9th to 10th Sts., $3,233, Watkins St. from 10th to 11th Sts., $3,062; McCool Constr. Co., 5033 Duffield St., Fillmore St. from Thompson to Almond Sts., $3,050, I St. from Tioga to Atlantic Sts., $2,650, Palmetto St. from Tioga to Atlantic Sts., $2,179; I. K. Davis Co., 20th and Spencer Sts., Lambert St. from Spencer to Godfrey Sts., $11,064; F. T. Buckius, 4050 Kensington Ave., Florence St. from 53d to 54th Sts., $886; R. F. Higgins, 712 Liberty Bldg., Lawrence St. from Grange to Nedro Sts., $4,653, Quince St. from Lombard to Waverly Sts., $2,628; Ryan & Heller, 2903 West Lehigh Ave., Hancock St. from Shunk to Oregon Sts., $12,434; J. Perna, 362 North 65th St., Camac St. from Olney to Grange Sts., $19,120, Olive St. from Hancock to Newmarket Sts., $1,275, 12th St. from Olney to Grange Sts., $23,082; A. A. Pastor, 5903 Woodland Ave., Greenway St. from 65th to 66th Sts., $3,857, 22d St. from Point Breeze to Dickinson Sts., $2,210; R. Lombardi, 601 Lincoln Bldg., 56th St. from Willow to Springfield Sts., $44,679, Rising Sun Lane from Boulevard to Wyoming St., $39,115; D. Peoples, 743 East Penn St., Germantown St. from Southampton to Highland Sts., $34,502, Kenyon St. from School House Lane to Armat St., also East School House Lane from Kenyon St. to Market Sq., $14,315; T. P. Lee, 5629 Cherry St., Stewart St. 57th to 59th Sts., $17,074; N. Cascetti, 2037 West Venango St., 11th St. from Green to Mt. Vernon Sts., $2,518, 11th St. from Wallace to Lemon Sts., $1,856, Lippincott St. from Emerald St., S.E., to dead end, $2,836; J. J. McHugh, 1430 South Penn Sq., Champlost St. from York Rd. to 16th St., $16,842, Luzerne St. from O to Kensington Sts., $14,068, Nedro St. from 6th to 7th Sts., $17,243, Vankirk St. from Jackson to Walker Sts., $30,548; W. H. Yettman, Jr., 601 Lincoln Bldg., Kensington St. from Westmoreland to Ontario Sts., $8,900, J. F. Reilly, 712 Liberty Bldg., Cherry St. from Conestoga to 55th Sts., $3,214, Locust St. from 47th to 49th Sts., $8,682, Malvern St. from 56th to 57th Sts., $1,956; A. Di Sandro, 3906 North 5th St., Bodine St. from Wingohocking to Bristol Sts., $11,448, Croskey St. from Cambria to Indiana Sts., $5,363, Fairhill St. from Grange to Nedro Sts., $6,280, Howard St. from Loudon to Rockland Sts., $4,087, Lawrence St. from Rockland to Ruscomb Sts., $5,188, Loudon St. from Mascher to Front Sts., $4,755, Mascher St. from Tioga to Glenwood Sts., $4,651, Rockland St. from Mascher St. to Rising Sun Lane, $2,595, 6th St. from Grange to Nedro Sts., $6,825, Wentz St. from Mascher to Front Sts., $6,362. Noted July 8.

★**Pa., Pittsburgh**—City let contract building Uptegraff St. Sewer, to J. E. Born, Union Arcade, $25,165. Noted July 15.

★**O., Lakewood** (Cleveland P. O.)—City let contract building sewers and water curb connections in Richland and South Lakeland Aves., Elber and Bentz Rds., to Joseph & Kalill, 1200 Bolivar Rd., Cleveland. About $25,000.

★**Ia., Bancroft**—City let contract building sewerage system, to O. N. Gjellefald, Forest City, $86,000; sewage disposal plant, to H. R. Ash, Bancroft.

★**Col., Denver**—City let contract laying 38,000 ft. 12-48 in. vitr. and brick pipe in East Side Storm Sewer Dist. 1, to Gibbons & Lawrence, Denver. About $146,000.

Ore., Portland—City Council received bids July 21, building (a) Portland Blvd. and Piedmont Sewerage System, (b) Morgan and Moore Sts. Sewerage System, (c) building sewer in 40th Ave. S.E. from 54th Ave. S.E. to Foster Rd., (d) East 37th St. from Llebe St. to Raymond Ave., (1) cement, (2) vitr., from Parker-Schram Co., 214 Lumbermen's Exch. Bldg., (a1) $59,997, (b1) $38,674; Mchemarle & Co., (c1) $1,469, (d1) $762; J. Keating, (b1) $42,367; J. Albert, 794 East 11th St., N., (c1) $1,490, (d1) $811; Lundstrom & Carlson, (c2) $1,685, (d2) $795; Lane & Pasanen, (c2) $1,609, (d2) $819.

★**Ont., London**—City let contract laying 8-12 in. tile sanitary sewers in various streets, to J. McMurphy, 29 Oak St. About $29,500. Noted April 1.

Bridges

PROPOSED WORK

N. Y., White Plains—Bronx Parkway Comn., West Pondfield Rd., Bronxville, received no bids building 145 ft. rein.-con. and stone viaduct, 25 ft. wide, on Woodland Pl., here. Work will be readvertised. Noted May 20.

N. J., Trenton—See "Streets and Roads."

N. C., Florence—Gaston Bridge Co., Franklin, Va., plans to build bridge over Roanoke River, near here, probably steel. About $50,000.

N. C., Mocksville—Comrs. Davie Co. plan to build 187 ft. steel bridge over Bear Creek, here. N. S. Mullican, Mocksville, engr.

Fla., St. Augustine—See "Streets and Roads."

Kan., Belleville—Republic Co. had plans prepared building 8 rein.-con. bridges, varying in size from 14 to 35 ft. long, 18 ft. wide. E. C. L. Wagner, 603 Kemper Bldg., Kansas City, Mo., engr.

Mo., Forsythe—Forsythe Special Rd. Dist. having plans prepared building 480 ft. bridge, 18 ft. wide, over White River, to have two 190 ft. river spans with approach spans. About $72,000. C. O. Mann, Jefferson City, engr.

Mo., St. Louis—Bd. Pub. Serv. soon receives bids building sewers in Harlem and Goodfellow Joint Sewer Dist., vitr. segmental block and vitr. brick laid in cement mortar. About $47,900. W. W. Horner, city engr.

Bridges (Continued)

Missouri—See "Streets and Roads."

Wash., Mt. Vernon—City and Northern Pacific Ry. had plans prepared for 500 ft. rein.-con. bridge, 22 ft. roadway and two 6 ft. sidewalks, over Northern Pacific Ry. tracks. About $90,000. Bowerman & McCloy, Mutual Life Bldg., Seattle, engrs.

Ont., Chatham—City having plans and estimates prepared and soon receives bids building trunk sewer. About $60,000. F. Adams, city engr.

BIDS DESIRED

Me., Augusta—Until Aug. 18 (change of date), at office of Supervising Engineer, Dept. Pub. Wks., Quebec, Que., Canada, building substructure and superstructure of Edmunson, N. B.-Madawaska, Me., International Bridge; advertised in this issue. Noted July 29.

N. J., Glenmore—Until Aug. 10, by Bd. Freeholders Mercer Co. (Trenton), reinforcing and strengthening 101 ft. steel truss bridge, over Stony Brook, here, involving 32,000 lb. structural steel, 6,300 lb. reinforcing rods, 221 sq.yd. asphalt flooring and 55 cu.yd. concrete. H. F. Harris, Court House, Trenton, engr.

Pa., Pottsgrove—Until Aug. 10, by R. Kisner, solicitor, 110 Mill St., Danville, building 14 ft. concrete bridge, near here, 16 ft. wide, structure to be 8 ft. from bottom of foundations to top of floors, for Liberty Twp. Supervs., Danville. About $25,000.

Pa., Powys (Trout Run P. O.)—Until Aug. 11, by Comrs. Lycoming Co. (Williamsport), building new rein.-con. abutments, moving steel superstructure 900 ft., installing steel stringers, constructing creosote flooring and painting 75 ft. bridge over Lycoming Creek, Route 20, here. About $25,000. M. H. Krause, co. engr.

Pa., Reading—Until Aug. 25, by City Clerk, rebuilding superstructure of Front St. Bridge, concrete and asphalt flooring. E. B. Ulrich, city engr.; advertised in this issue.

North Carolina—Until Aug. 25, by State Highway Comn., at div. office, Greensboro, building rein.-con. bridge over Yadkin River between Montgomery and Stanley Counties, W. S. Fallis, Raleigh, state highway engr.; advertised in this issue.

Ga., Lumpkin—Until Aug. 10, by Comrs. Rds. & Revenues, Stewart Co., furnishing labor and material building 2 rein.-con. deck girder bridges on Lumpkin-Richland Rd., 1 mi. from here, Federal Aid Project 163. Bridge 1, to have one 60 ft. span, includes removal of old structure, and involves 90 cu.yd. wet excav., 170.23 cu.yd. Class "A" and 139.63 cu.yd. Class "B" concrete, 23,200 lb. reinforcing steel, etc.; Bridge 2, 28 ft. span, include removal of old structure, and involves 56 cu.yd. wet excav., 30.95 cu.yd. Class "A" and 658 cu.yd. Class "B" concrete, 9,077 lb. reinforcing steel, etc. J. V. Castleberry, clk.

Illinois—Until Aug. 11, by State Highway Dept., Springfield, building bridges on following highways: Carbondale-Marion Highway, Federal Aid Project 15, two 30 ft. concrete span bridges on Sect. 1B, Williamson Co., involving 232.7 cu.yd. concrete, 24,060 lb. reinforcing steel, 329 bbl. cement, etc., Sect. 5B, Jackson and Williamson Counties, one 120 ft. steel span bridge, 501 cu.yd. concrete, 45,830 lb. structural steel, 731 bbl. cement, etc., one 16 ft. and one 30 ft. concrete span bridges, 97,970 cu.yd. concrete; Mt. Vernon-Fairfield Highway, Federal Aid Project 16, one 60 ft. concrete span bridge on Sect. 15B, Jefferson Co., 255.6 cu.yd. concrete, 39,430 lb. reinforcing steel, 373 bbl. cement, etc., one 45 ft. and two 22 ft. concrete span bridges on Sect. 16B, Jefferson and Wayne Counties, 350.5 cu.yd. concrete, 39,480 lb. reinforcing steel, 512 bbl. cement, etc., one 20 ft., one 40 ft. and two 50 ft. concrete span bridges on Sect. 18B, Wayne Co., 596.2 cu.yd. concrete, 75,760 lb. reinforcing steel, 842 bbl. cement, etc.; Freeport-Rockford Highway, Federal Aid Project 19, Stephenson Co., one 20 ft. and one 40 ft. concrete span bridges, Sect. 18B, 216.7 cu.yd. concrete, 27,240 lb. reinforcing steel, 317 bbl. cement, etc., one 26 ft. and one 40 ft. concrete span bridges, Sect. 19B, 376.1 cu.yd. concrete, 42,562 lb. reinforcing steel, 550 bbl. cement, etc., one 120 ft. steel span bridge, Sect. 19C, 262.5 cu.yd. concrete, 18,190 lb. reinforcing steel, 383 bbl. cement, etc. C. Older, ch. highway engr.

Kan., Junction City—Until Aug. 14, by Comrs. Geary Co., building 150 ft. bridge, 18 ft. roadway, on East 6th St. Rd., involving 813 cu.yd. concrete, 27,100 lb. steel reinforcement, 37,400 lb. structural steel, etc. B. Moon, clk. Noted July 29.

Missouri—Until Aug. 20 (change of date), by State Highway Dept., St. Joseph, building skew slab superstructure and 4 rein.-con. pile bents over Contrary Creek, Sta. 64 plus 32, cost $9,491; through girder superstructure and 2 rein.-con. abutments over Rushville Drainage Ditch, Sta. 649 plus 51, $9,887; deck girder superstructure, 2 rein-con. abutments and 1 temporary bridge, over Drainage Ditch, Sta. 229, $4,788; skew slab superstructure, 2 rein.-con. abutments and 1 concrete pier over Drainage Ditch, Sta. 515 plus 65, $4,689; skew slab superstructure, 2 rein.-con. abutments and 2 piers, over Drainage Ditch, Sta. 357 plus 90, $6,381. Above projects in Buchanan Co., Federal Aid Project 49, Sect. B, and all to have 18 ft. clear roadway. Noted July 29.

Tex., Bonham—Until Aug. 23, by S. Smith, secy. Bonham Red River Bridge Co., building bridge over Red River, to have four 185½ steel spans, 18 ft. wide, Harrington, Howard & Ash., Orear Leslie Bldg., Kansas City, Mo., engrs. Noted April 8.

Mont., Shelby—Until Aug. 10, by H. E. Moody, aud. Toole Co., building 75 ft. steel span bridge on tubular piers and timber approaches, 60 ft. wood pile bridge and 20 ft. standard concrete slab bridge, involving 32,000 lb. structural and 9,338 lb. reinforcing steel, 12,000 lb. steel in tubular piers, 1,400 lin.ft. piling, 34,820 ft. lumber, 78 cu.yd. Class "A" concrete in standard slab bridge and 36 cu.yd. Class "C" concrete in tubular piers. About $26,000.

Oregon—Until Aug. 10, by State Highway Comn., Salem, building 4 wooden bridges on Crooked River Highway, Crook Co., involving 1,100 cu.yd. excav., 35 cu.yd. Class "A" and 560 cu.yd. Class "B" concrete, 9,100 lb. metal reinforcing, 790 lin.ft. piling, 460 lin.ft. wooden trestle, two 40 ft. and two 20 ft. wooden truss spans; 5 wooden bridges on John Day River Highway, Grant Co., 715 cu.yd. excav., 15 cu.yd. Class "A" and 345 cu.yd. Class "B" concrete, 6,400 lb. metal reinforcing, 224 lin.ft. wooden trestle, four 40 ft. wooden truss spans and two 105 ft. wooden truss spans; 1 bridge over Haystack Creek on John Day River Highway, Wheeler Co., 80 cu.yd. excav., 39 cu.yd. Class "B" concrete, 40 lin. ft. wooden trestle and one 40 ft. wooden truss span. H. Nunn, state highway engr.

Alaska, Nenana—Until Sept. 6, by Alaska Eng. Comn., Bell St. Dock, Seattle, building 570 ft. steel viaduct to carry railroad over Riley Creek, regular grade on south approach, 350 ft. framed timber trestle on north approach, to have 6 steel towers, seven 30 ft. girder tower and six 60 ft. girder intermediate spans, involving 490 ton steel, 90 lb. A. S. C. E. type rails and 8 x 12 in. fir ties. About $100,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Vt., Boltonville**—Boston & Maine R.R. North Sta., Boston, let contract building concrete and steel bridge, here, to Wilson & English Constr. Co., 176 Federal St., Boston. About $30,000.

★**Vt., Plainfield**—Boston & Maine R.R., North Sta., Boston, let contract building Bridge No. 8, concrete and steel, to Wilson & English Constr. Co., 176 Federal St., Boston. About $30,000.

★**Vt., Wells River**—Boston & Maine R.R., North Sta., Boston, let contract building concrete and steel bridge, along railroad tracks here, to Wilson & English Constr. Co., 176 Federal St., Boston. About $27,000.

★**Mass., Cambridge**—Boston & Maine R. R., North Sta., Boston, let contract building steel highway bridge on Porter Sq., here, to Boston Bridge Wks., Inc., 47 Winter St., Boston. About $35,000.

★**Pa., Elizabethtown**—Dauphin Co. (Harrisburg) let contract building concrete intercounty bridge over Conewago Creek, between here and Middletown, to O'Brien & Sharkey, Phila., $25,817 (80 days).

★**Pa., Hummelstown**—Dauphin Co. (Harrisburg) let contract building 3 arch concrete bridge over Swarta Creek, here, to Wagman Bros., Dallastown, $113,900 (180 days). Noted June 3.

★**Pa., Vintondale**—Cambria Co. let contract removing temporary bridge and building rein.-con. arch bridge over Blacklick Creek, 80 ft. long and 18 ft. wide, rein.-con., to Elder & Evans, Ebensburg, $28,020 (120 days). Noted July 15.

★**Fla., Milton**—Comrs. Santa Rosa Co. let contract building 338 ft. steel bridge (Bascule lift span) over Blackwater River on State Road 1, to Pensacola Shipbuilding Co., Blount Bldg., Pensacola, $75,600.

★**Wis., Beloit**—City let contract building 249 ft. rein.-con. bridge, 66 ft. wide, on Central St., to Stein Constr. Co., 204 Grand Ave., Milwaukee. About $82,500. Noted July 8.

★**Ia., Independence**—Buchanan Co. let contract building bridges and culverts at various points, to J. B. Elliott, Fairbank, $4,864, A. Olson Constr. Co., 401 Black Hawk Natl. Bank Bldg., Waterloo, $17,47[illegible] F. E. Reinhold, Quasqueton, $17,874.

★**Minn., Mora**—Kanabec Co. let contract building 66 ft. rein.-con. culvert and Bridge 3154, Federal Aid Project 91, on State R[illegible] 2, to have three 55 ft. rein.-con. spans, to F. Gustafson, Brahm. About $31,600.

★**N. D., Jamestown**—Stutsman Co. let contract building steel bridge over James River, on 5th St., to Jardine Co., 1325 Front St., Fargo. About $29,600.

★**Idaho**—State Highway Dept., Boise, let contract building Owsley Ferry Bridge, Federal Aid Project 8, Twin Falls and Gooding Counties, involving 250 ton steel, to Milwaukee Bridge Co., 1400 34th St., Milwaukee, Wis. Noted June 24.

★**Wash., Milwood**—Spokane Co. (Spokane) let contract building 150 ft. concrete bridge, here, to have two 60 ft. approach spans, to W. A. Byers, 1204 Mansfield St., Spokane, $64,980.

Streets and Roads

PROPOSED WORK

Maine—State Highway Comn., Augusta, soon receives bids building 26 mi. gravel road. A. W. Brooks, chn.

New Hampshire—State Highway Comn., Concord, soon receives bids building 2 mi. Newington Rd., cost $66,000; 2 mi. Bethlehem Rd., $60,000; 3.000 ft. Diamond Hill Rd., $18,000; 2 mi. Lebanon Rd., $65,000. F. E. Everett, comr.

Conn., West Haven (New Haven P. O.)—Bd. Selectmen plans to pave various streets. About $115,000. A. Cahn, 839 Chapel St., New Haven, engr.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids received July 14, repaving with asphaltic concrete West 36th, East 51st, East 82nd and West 12th Sts., with asphalt block East 82nd St. and Bway., with wood block, Bway. Work will be readvertised. Noted July 22.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., received no bids July 14, repairing with asphaltic concrete Bway., with asphalt block, 12th, East 51st and West 36th Sts. Noted July 22.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids received July 6, regulating and repaving with asphalt block 179th, 182nd and Dykeman Sts., with sheet asphalt Mt. Morris Park. Noted July 15.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., received no bids July 21, improving with asphalt block, Bway and 125th St., with sheet asphalt, West 18th, 86th, 125th Sts. and Bway., with wood block, Greenwich Ave., West 18th St., with granite block Greenwich Ave. Noted July 29.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids received July 21, repaving West 18th St., sheet asphalt. About $100,000. Work will be readvertised.

N. Y., S. I. St. George—C. D. Van Name, pres. Richmond Boro., received no bids July 8, furnishing and applying 23,000 gal. bituminous material on Southfield Blvd., 9,700 gal. on Morningstar Rd. and 3,000 gal. on Division St. Work will be readvertised.

N. J., Jersey City—City soon receives bids improving Terrace Ave., asphalt on concrete base. About $50,000. F. Dolan, clk.

N. J., Jersey City—Hudson Co. Blvd. Comn. rejected bids July 7, improving Hudson Blvd. between Paterson Plank and Hackensack Plank Rds. Noted July 22.

N. J., Phillipsburg—Comrs. Warren Co. (Belvidere) plan to pave .75 mi. South Main St., 26 ft. wide, concrete. About $31,000. H. W. Vetter, Belvidere, engr.

N. J., Trenton—Bd. Freeholders Mercer Co. sold $670,000 bonds to build roads and bridges. H. F. Harris, co. engr.

Maryland—State Rds. Comn., 601 Garrett Bldg., Baltimore, rejected bids received July 28, building .19 mi. state highway through town of Snow Hill, Contr. WO-22, and .31 mi. state highway through town of Pocomoke, Contr. WO-21. Noted July 22.

Md., Baltimore—City Council and State Rds. Comn., 601 Garrett Bldg., had tentative plans prepared for 1.5 mi. road to connect old Annapolis Rd. and Hanover St. at Hanover St. Bridge, 18 ft. wide, concrete,

Streets and Roads (Continued)

also 200 ft. concrete bridge over Washington, Baltimore & Annapolis Electric R.R. (Annapolis Short Line) and Baltimore & Ohio R.R. (Curtis Bay branch). J. N. Mackall, ch. state roads comn.

Md., Baltimore—See "Sewers."

Md., Hagerstown — Comrs. Washington Co. plan to improve 3 mi. road in Hedgeville Dist., 18 ft. wide, Kentucky rock asphalt. About $63,000. H. Holzapfel, Jr., chn.

D. C., Washington — Dist. Comrs. and Federal Government have appropriated $614,200 to grade, pave and repave various streets and avenues.

W. Va., Berkeley Springs—Morgan Co. rejected bids paving 3,000 ft. Hancock-Berkeley Rd. Noted July 8.

W. Va., Ripley—Jackson Co. plans election to vote on $90,000 bond issue to improve Columbia-Charleston Federal Highway, Union Dist.; $130,000 bonds to hard surface 15 mi. Columbia-Charleston Turnpike, Ripley Dist. T. A. Bragonier, co. engr.

N. C., Dobson—Comrs. Surry Co. plan to hard surface 8 mi. Mt. Airy-Hillsboro Rd. About $300,000. N. W. Thomasson, chn.

S. C., Columbia—City opens bids about Aug. 31, paving 3,800 ft. North Main St., 52 ft. wide. About $90,000. F. C. Wyse, 903 Woodrow St., engr.

S. C., Columbia — Comrs. Richland Co. open bids about Sept. 15, grading and hard surfacing 16 mi. Two Notch Rd., about 16 ft. wide. J. R. Pennell, Columbia, engr. Noted July 1.

Fla., St. Augustine—St. Johns Co. election Aug. 24 to vote on $2,250,000 bonds to pave, hard surface and build 2 concrete bridges.

Tennesse—State Highway Dept., Nashville, rejected bids received July 16, building 14.51 mi. state highway, McMinn Co. Work will probably be readvertised. Noted July 1.

Tenn., Shelbyville—City will sell $200,000 bonds Aug. 17, to improve highways.

Ky., Clinton—Hickman Co. (Clinton) and Fulton Co. (Hickman) plan election in November to vote on $400,000 bond issue to build Federal Aid Highway from Paducah to Fulton and Hickman.

O., Dayton—City plans to pave 5 alleys, 16-20 ft. wide, involving 5,000 sq.yd. concrete. About $26,000. G. Baker, city engr.

O., Minerva—City plans to pave 1 mi. various streets, 24 ft. wide, vitr. brick and stone curbing. About $70,000. L. A. Boulay Co., 1250 Nicholas Bldg., Toledo, engrs.

O., Oxford—City plans to pave 2,000 ft. College Ave., 40 ft. wide, vitr. brick on concrete base. About $40,000. L. A. Boulay Co., 1250 Nicholas Bldg., Toledo, engrs.

Mich., Houghton—Bd. Rd. Comrs. Hancock Co. plans to build rubble retaining walls, curb, gutters and surface .809 mi. State Trunk Line Rd. 15-6, 17 ft. wide, involving 1,164 cu.yd. earth excav., 8,556 sq.yd. bituminous macadam, etc. State Highway Dept., Lansing, engrs.

Ia., Des Moines—Polk Co. soon receives bids improving 4.8 mi. River to River Rd. from east city limits to and beyond city of Altoona, 18 and 20 ft. wide, involving 12,599 cu.yd. loose earth excav., 55,564 cu. yd. Class "A" concrete, 20,650 lin.ft. 6 in. drai ntile, etc. About $225,000. F. O. Laing, co. engr.

Montana—State Highway Dept., Helena, plans to improve 4 mi. Jennings-Worland Rd., also 4 mi. Rexford-South Rd., both 20 ft. wide Lincoln Co., earth graded, cost $19 998 and $19,965 respectively; 1 162 mi. Pershing-Creek Hill Rd., Stillwater Co., earth graded, $19,656; 17 mi. Glendive-Fallon Rd., type "B" gravel surfaced, $102,-194; 7 mi. Bonner-Nimrod Rd., Missoula Co., type "A" gravel surfaced, $91,850; 20 mi. Gildford-Joplin Rd., Hill Co., type "B" gravel surfaced, $101284; 3.23 mi. Mason-Laurel Rd., Yellowstone Co., type "B" gravel surfaced, $26,144. Federal Government has been asked to appropriate towards cost.

Mont., Choteau—Teton Co. plans to build 30 mi. Choteau-Dupuyer Rd., type "A" gravel surface. About $194,656. Federal Government has been asked to appropriate toward cost. J. N. Edy, Helena, engr.

Missouri—State Highway Dept., Jefferson City, plans to build 6.1 mi. Windsor-Leeton Rd., 24 ft. wide, Federal Aid Project 132, Henry Co., involving 12,200 cu.yd. excav., 7% rock, 240 cu.yd. rock excav., 57,260 sq.yd. Joplin chat surfacing, etc., extensions to 2 culverts, etc., cost $61,244; 8.1 mi. Clinton-Sedalia Rd., 24 ft. wide, Federal Aid Project 133, Henry Co., 16,000 cu.yd. excav., 1% rock, 162 cu.yd. rock excav., 76,035 sq.yd. Joplin chat surfacing, 5 culverts, extensions to 7 culverts, $84,095; 10.8 mi. Sedalia-Marshall Rd. (Longwood Special Rd. Dist.), 24 ft. wide, Federal Aid Project 131, Pettis Co., 45,000 cu.yd. excav., 6% rock, 2,700 cu.yd. rock excav., 101,700 sq.yd. waterbound macadam pavement, 21 rein.-con. culverts, etc., $140,400; 22.2 mi. Jefferson Highway, 24 ft. wide, Federal Aid Project 130, Harrison Co., 245,000 cu.yd. excav., 2% rock, 5,000 lin.ft. underdrain, 88 concrete and 21 rein.-con. pipe culverts, one 150 ft. steel span bridge to have two 25 ft. concrete slab spans, etc., $288,642; 3.8 mi. North State Highway, 24 ft. wide, Federal Aid Project 126, Audrain Co., 15,000 cu.yd. earth excav. and 35,670 sq.yd. gravel surfacing, $62,666.

Missouri—Good Rds. Council, representing every congressional dist. in state, plans to grade, pave and build bridges on various roads between principal cities. Election in November to vote on $60,000,000 bonds. Cost to be borne by state and federal aid. H. B. Hawes, Boatmans Bank Bldg., St. Louis, pres. Engineer not selected.

Tex., Nacogdoches — Nacogdoches Co. having plans prepared grading, surfacing and draining 32.68 mi. Highway 35 from Shelby Co. to Angelina Co. line, 16 ft. wide, involving 195 acres clearing and grubbing, 294,570 cu.yd. earth excav., 400 cu.yd. concrete, 65,360 cu.yd. gravel, 160,000 lb. fabricated and 202,000 lb. reinforcing steel, etc. About $364,200. L. Acker, Nacogdoches, engr.

Tex., New Boston — Bowie Co. having plans prepared grading, surfacing and draining 16.35 mi. Highway 1 and Highway 8 south to Sulphur River, involving 60 acres clearing and grubbing, 44,900 cu.yd. borrow, 40,100 cu.yd. earth excav., 25,580 cu.yd. gravel, 162,580 lb. reinforcing and 30,200 cu.yd. structural steel, 1,660 cu.yd. Class "A," 12.5 cu.yd. Class "B" and 84 cu.yd. Class "C" concrete. About $181,840. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Arizona—State Highway Comn., Phoenix, voted $210,000 bonds to rebuild and surface road from Winslow to Moqui Indian Reservation, Holbrook to Snowflake, Snowflake to Pinedale, and Holbrook to Winslow, Navajo Co.

Arizona—State Highway Comn., Phoenix, plans to build road from Oatman to Topack, Kingman to Nelson, Kingman to Lower Sandy, Lower Sandy to Signal, Kingman to Utah State Line, Kingman south to Phoenix via Bill Williams River Crossing, Mohave Co. About $300,000.

Wash., Everett—City having plans prepared laying concrete sidewalks and roadway on Summit Ave. from Everett to 20th Sts. About $27,000. A. B. Cutter, Everett, engr.

Wash., Puyallup—City having plans prepared grading and paving Park Ave., 5th Ave. N. W. and S. W., 9th Ave., S. W. and 2nd Ave. N. W. About $55,000.

N. B., Fredericton—City plans to pave various streets, involving 6,227 cu.yd. earth excav. and 15,000 sq.yd. waterbound and bituminous macadam. About $61,500. G. C. McDowell, Fredericton, engr.

BIDS DESIRED

New York—Until Aug. 10, by F. S. Greene, state highway comr., Capitol, Albany, improving, completing and repairing highways in Albany, Cattaraugus, Dutchess, Essex, Oneida, Onondaga, Schuyler, Wayne and Yates Counties; advertised in this issue.

N. Y., Brooklyn—Until Aug. 11, by E. Riegelmann, boro. pres., regulating, grading, curbing and laying sidewalks on Bath Ave. from 21st Ave. to Bay 35th St., regulating, curbing and laying sidewalks on Hegeman Ave. from Hopkinson Ave. to East 98th St., regulating and grading Hegeman Ave. from Hopkinson Ave. to East 98th St., regulating, grading, curbing, laying sidewalks and paving with preliminary bituminous macadam, Neptune Ave. from West 6th to West 8th Sts.

N. Y., Brooklyn—Until Aug. 11, by E. Riegelmann, boro. pres., regulating, grading, curbing and laying sidewalks on East 7th St. from Ave. T to Ave U, East 19th St from Ave. M to Ave. N, 52nd St. from 16th to 17th Aves., 82nd St. from 20th to 21st Aves.; regulating and paving with permanent asphalt on 6 in. concrete foundation, roadway of East 7th St. from Ave. T to Ave. U, 47th St. from New Utrecht to 18th Aves. 51st St. from 15th to 16th Aves., 52nd St. from 16th to 17th Aves., 81st St. from 21st to 22nd Aves., 82nd St. from 21st to 22nd Aves., regulating, paving and repaving with permanent asphalt on 6 in concrete foundation, Ave. K from Flatbush Ave. to East 40th St., furnishing ad delivering 2,500 bbl. Portland cement.

N. Y., New York—Until Aug. 12, by Park Bd., at office of Dept. Parks, Municipal Bldg., for labor and materials for repaving walks of Riverside Park asphalt mastic.

N. Y., New York—Until Aug. 10, by H Bruckner pres. Bronx Boro., repaving with granite blocks on concrete foundation, roadway of 3rd Ave. fom East 138th St. to East 150th Sts., with dessed granite block, East 149th St. from Courtlandt to Morris Aves., with sheet asphalt Creston Ave. from East 181st to East 184th Sts., East 167th St. from 3rd to Park Aves., building sewers and appurtenances in Leland Ave. between Wood and East Tremont Aves., Archer St from White Plains Rd. to Leland Ave. Guerlain St. between White Plains Rd. and Leland Ave.

N. Y., New York—Until Aug. 13, by H. H Curran, pres. Manhattan Boro., regulating and repaving with granite block on concrete foundation, roadway of State St. from Whitehall St. to Battery Pl., Prince St from Wooster St. to West Bway. Wooster St. from point 213 ft. south of south curb line to south curb line of Prince St., East 39th St. from 1st to 3rd Aves. 122nd St. from Amsterdam Ave. to Riverside Dr., with asphalt block, 179th St. from Amsterdam Ave. to Bway., 182nd St. from Amsterdam to Wadsworth Aves., 182nd St. from Wadsworth Ave. to Bway., with sheet asphalt, 179th St. from Amsterdam Ave. to Bway. 182nd St. from Amsterdam to Wadsworth Aves., extending altering and improving outlet s wer at foot of East 122nd St. and Harlem River, etc.

N. J., Newark—Until Aug. 10, by city, improving Wolcott Terrace, Huntington and Providence Sts. involving 13,300 sq.yd. concrete paving, 6,000 ft. bluestone curbing, 2,500 ft. new cement sidewalks, 2,000 cu.yd. excav. About $30 000. Dept. Streets & Pub Impvts., City Hall, engr.

N. J., Newark—Until Aug. 10, by city, improving New Jersey R.R. Ave. from Vanderpool to Stanton Sts., involving 3,300 sq.yd. concrete paving, 1,190 ft. new cut granite curbing, 800 sq.ft. new cement sidewalks and 332 cu.yd. excav. About $25,000. Noted June 10.

N. J., North Bergen—Until Aug. 29, by town improving South St. About $50,000 Noted April 1.

N. J., West Orange—Until Aug. 10, by G. C. Bergen, purch. agt. Essex Co., Court House, Newark, improving Mt. Pleasant Ave., here; advertised in this issue.

Maryland—Until Aug. 9, by State Rds Comn., 601 Garrett Bldg., Baltimore, building 0.22 mi. state highway through town of Frederick, known as Patrick St. Contr F-37. J. N. Mackall, chn.; advertised in this issue.

Md., Baltimore—Until Aug. 11, by Bd. Awards, c/o City Register, City Hall, grading curbing and paving 37th and 38th Sts. from Star Lane to Frisby St., Frisby St. from 36th St. to Chestnut Hill Ave., involving 5,000 sq.yd. cement concrete, 3,100 lin ft armored concrete and 1,700 cu.yd. grading, Contr. 177.

W. Va., Princeton—Until Aug. 10, by L. G. Bowling, clk. Mercer Co., shale surfacing 2 mi. Duhring-Goodwill Rd., 9 ft. wide E. C. Barton, Bluefield, engr.

N. C., Rutherfordton—Until Aug. 20, by Comrs. Rutherford Co., grading and top soiling 10.25 mi. Charlotte-Asheville Highway. About $100,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

S. C., Columbia—Until Aug. 24, by City Council, paving North Main St. from Scott St. to northern city limits. F. C. Wyse, city engr.; advertised in this issue.

S. C., Union—Until Aug. 11, by Comrs. Union Co. top soiling, grading and building necessary bridges on 3.7 mi. Federal Aid Project 100, cost $40,000; 1.8 mi. Sect. A, Federal Aid Project 94, $12,000. W. B. Deeneen, Union, engr.

Ga., Decatur—Until Aug. 17, by Comrs. Roads and Revenues, De Kalb Co., furnishing labor and material grading, surfacing and draining 1.913 mi. National Highway between here and Scottdale, 18-32 ft. wide. Work involves 2,700 cu.yd. earth excav., 13,072 sq.yd. scarifying and reshaping, 1,307 ton stone, 10,793 sq.yd. new foundation, 23,865 sq.yd. pavement, 7,794 cu.yd. concrete, 597 lb. reinforcing steel, etc. Bids will be received on penetrated asphaltic macadam, asphaltic macadam, asphaltic concrete, Finley method, Kentucky Rock asphalt, Willite method, etc. L. T. Y. Nash, comr. E. V. Camp, Box, Box 421, Atlanta, project engr.

Streets and Roads (Continued)

Ga., Summerville—Until Aug. 11, by Bd. Comrs. Rds. and Revenues, Chattooga Co., top soiling 0.32 mi. Rome-Summerville Rd., Federal Aid Project 115, involving 0.327 acres, clearing and grubbing, 896 cu.yd. solid, 1,829 cu.yd. common and 3,362 cu.yd. borrow excav., 626 cu.yd. top soiling, 3.24 cu.yd. Class B concrete, etc.; building bridge over Little Amurchee Creek on above road, involving 92.96 cu.yd. Class A and 271.91 cu.yd. Class B concrete, 156.4 sq.yd. concrete granolithic (alternate Luten design), involves 80 cu.yd. Class A and 347 cu.yd. Class B concrete and 17,250 lb. reinforcing steel. B. F. Edmonson, chn.

La., Decompte—Until Aug. 17, by town, building 1 mi. sidewalk and ¼ mi. combined curb and gutter. J. L. White, town engr.

Tennessee — Until Aug. 20, by State Highway Dept., Nashville, grading and draining 14.544 mi. State Highway 36, between Carroll and Weakley Counties, involving 84,120 cu.yd. common excav., 45,059 cu.yd. borrow, 283 cu.yd. Class "A" and 349.5 cu.yd. Class "B" concrete, 47,060 lb. deformed steel bars, 1,450 lin.ft. 15-24 in. culvert pipe, etc.; 9.94 mi. State Highway 3, between Cheatham Co. line and Burns, Dickson Co., 57,471 cu.yd. common excav., 8,095 cu.yd. borrow, 68.42 cu.yd. Class "A" and 65.09 cu.yd. Class "B" concrete, 6,079 lb. deformed steel bars, 1,058 lin.ft. 12-30 in. pipe culverts; building 16.304 mi. State Highway 7, between Davidson Co. line and Murfreesboro, Rutherford Co., 22,082 cu.yd. common excav., 2,123 cu.yd. solid rock excav., 4,801 cu.yd. borrow, 9.19 cu.yd. special concrete, 349.78 cu.yd. Class "A" and 167.25 cu.yd. Class "B" concrete, 32,153 lb. deformed steel bars, 674 lin.ft. 12-24 in. pipe culvert, 135,044 sq.yd. reconstructed base course, 55,986 sq.yd. broken stone base course "A," 135,044 sq.yd. broken stone base course "B" and 191,311 sq.yd. bituminous macadam penetration. W. P. Moore, ch. engr.

O., Dayton—Until Aug. 11, by Comrs. Montgomery Co., paving 1.2 mi. Bessie Little Rd., 20 ft. wide. About $65,000. P. S. Bookwalter, co. surv. Noted July 1.

O., Jackson—Until Aug. 12, by F. D. Ewing, dir. Pub. Serv., furnishing labor and material improving Pearl St. from east line of Bridge St. to junction of Pearl and South Sts., brick with cement curbing.

Mich., Lapeer—Until Aug. 17, by Bd. Rd. Comrs. Lapeer Co., grading, draining and surfacing 2.993 mi. State Trunk Line Rd. 21-12, 16 ft. wide, involving 14,274 cu.yd. earth excav., 28,093 sq.yd. gravel surface, 135 cu.yd. pipe culverts and 604 lin.ft. concrete in culverts.

Mich., Ontonagon—Until Aug. 13, by Bd. Rd. Comrs. Ontonagon Co., grading, draining and surfacing 2.856 mi. State Trunk Line Rd. 68-1, Sect. A; 16-20 ft. wide, involving 26,981 sq.yd. concrete, bituminous concrete, waterbound or bituminous macadam 6,226 cu.yd. earth excav. State Highway Dept., Lansing, engrs.

Mich., Saulte Ste. Marie—Until Aug. 17, by Rd. Comrs. Chippewa Co., grading, draining and surfacing 3.084 mi. State Trunk Line Rd. 25-16, 16 ft. wide, involving 7,682 cu.yd. earth excav., 28,953 sq.yd. gravel or stone gravel, 517 lin.ft. pipe culverts, 158 cu.yd. concrete in culverts. State Highway Dept., Lansing, engrs.

Illinois—Until Aug. 11, by State Highway Dept., Springfield, paving 3,000 ft. highway Route 1, Sect. B, Macon Co., 16 ft. wide, involving 5,333 sq.yd. concrete pavement, 792 cu.yd. excav. and 1,908 bbl. cement, cost, $13,091; 4,000 ft. Route 5, Sect. I, Shelby Co., 16 ft. wide, 7,111 sq.yd. concrete, 3,088 cu.yd. excav., 12.7 cu.yd. Class "A" concrete and 2,564 bbl. cement, $20,002; 6,696 ft. Route 5, Sect. I, Green Co., 24 ft. wide, 5,486 cu.yd. excav., 60.9 cu.yd. Class "A" concrete, 4,475 lb. reinforcing steel and 89 bbl. cement, $7,368; 2,102 ft. Route 10, Sect. J, Greene Co., 24 ft. wide, 5,826 cu.yd. excav., 24.5 cu.yd. Class "A" concrete, 1,900 reinforcing steel and 36 bbl. cement, $5,597; 2,159 ft. Route 1, Sect. D, Morgan Co., 16 and 18 ft. wide, 4,016 sq.yd. concrete, 1,460 cu.yd. excav., 1,496 bbl. cement, $13,625; Vandalia-Cairo Highway, Federal Aid Project 14, 1.81 mi. Sect. 9 A, Jackson Co., 15,316 cu.yd. excav., 6.27 mi. Sect. 10 A, Jackson and Union Counties, 85,280 cu.yd. excav., 836.4 cu.yd. Class "A" concrete, 82,900 lb. reinforcing steel and 1,222 bbl. cement, 5.22 mi. Sect. 11 A, Union Co., 63,570 cu.yd. excav., 524.5 cu.yd. Class "A" concrete, 45,350 lb. reinforcing steel, 765 bbl. cement, etc.; 5.8 mi. Carbondale-Marion Highway, Federal Aid Project 1, Sect. A, Williamson Co., 19 and 28 ft. wide, 47,788 cu.yd. excav., 472.2 cu.yd. Class "A" concrete, 33,450 lb. reinforcing steel and 683 bbl. cement; 4.12 mi. Mt. Vernon-Fairfield Highway, Federal Aid Project 16, Sect. 15 A, Jefferson Co., 30 ft. wide, 48,383 cu.yd. excav., 336.3 cu.yd. Class "A" concrete, 24,736 lb. reinforcing steel and 490 bbl. cement; 3.73 mi. Carbondale-Marion Highway, Federal Aid Project 1, Sect. 5 A, Jackson and Williamson Counties, 19 and 28 ft. wide, 88,580 cu.yd. excav., 823.6 cu.yd. Class "A" concrete, 70,990 lb. reinforcing steel and 571 bbl. cement; Freeport-Rockford Highway, Federal Aid Project 19, 0.39 mi. Sect. 18 A, 5,646 cu.yd. excav., 11.3 cu.yd. Class "A" concrete, 790 lb. reinforcing steel, 2.25 mi. Sect. 19 A, 32,168 cu.yd. excav., 95 cu.yd. Class "A" concrete, 7,362 lb. reinforcing steel and 139 bbl. cement, both 30 ft. wide, Stephenson Co.; Mt. Vernon-Fairfield Highway, Federal Aid Project 16, 7.2 mi. Sect. 16 A, Jefferson and Wayne Counties, 76,524 cu.yd. excav., 955.3 cu.yd. Class "A" concrete, 83,985 lb. reinforcing steel, 1,380 bbl. cement, etc., 2.22 mi. Sect. 18 A, Wayne Co., 60,845 cu.yd. excav., 108.4 cu.yd. Class "A" concrete, 9,680 lb. reinforcing steel, 159 bbl. cement, both 30 ft. wide; Quincy-Mt. Sterling Highway, Federal Aid Project 17, 6.85 mi. Sect. 1, 48,452 cu.yd. excav., 565.6 cu.yd. Class "A" concrete, 32,500 lb. reinforcing steel and 826 bbl. cement, 7.54 mi. Sect. 2, 110,874 cu.yd. excav., 1,180.7 cu.yd. Class "A" concrete, 106,370 lb. reinforcing steel, 1,725 bbl. cement, etc., both 30 ft., Adams Co.; Springfield-Danville Highway, Federal Aid Project 18, 3.07 mi. Sect. 20, 20 and 30 ft. wide, 39,498 cu.yd. excav., 319.3 cu.yd. Class "A" concrete, 25,490 lb. reinforcing steel, 469 bbl. cement, etc., 1.1 mi. Sect. 26, 30 ft. wide, 31,904 cu.yd. excav., both Sangamon Co. C. Older, ch. highway engr.

Wis., East End (Superior P. O.)—Until Aug. 14, by Douglas Co., grubbing, ditching and surfacing 12 mi. Pattison Park Trunk Rd. 35, 20 ft. wide. About $200,000. C. D. Caukey, co. engr.

Ia., Burlington—Until Aug. 13, by J. F. Weber, aud. Des Moines Co., grading, paving and draining 7.24 mi. Mt. Pleasant Rd. from West Burlington west to Middletown and on Agency Blue Grass Cutoff, 18 ft. wide. Work involves 35,536 cu.yd. earth excav., 77,364 sq.yd. concrete or brick pavement, 28,230 lin.ft. 6-18 in. drain tile, etc.

Ia., Keosaqua—Until Aug. 12, by Van Buren Co., improving 10.79 mi. country roads, involving 106,121 cu.yd. earth excav., 23,030 lin.ft. 6-12 in. tile and 30 tile intakes. J. W. Earley, Keosaqua, engr.

Ia., Knoxville—Until Aug. 10, by Comrs. Marion Co., improving 12.4 mi. various roads, involving 62,685 cu.yd. earth and 435 cu.yd. rock excav., 33,290 lin.ft. 6-12 in. tile, etc. W. M. MacGibbon, Knoxville, engr.

Minn., Walker—Until Aug. 12, by Cass Co. building 15 mi. Natl. Forest Rd. Project in Minnesota Natl. Forest, involving 58 acres grubbing, 119,823 cu.yd. grading, 185,692 cu.yd. overhaul, 15 mi. finishing earth road, 1,318 lin.ft. corrugated metal culverts, 6,786 cu.yd. clay surface, etc.

Kan., Leavenworth—Until Aug. 17, by Comrs. Leavenworth Co., grading and building culverts on 23.315 mi. Fort-to-Fort Highway, 18 ft. wide, cost $50,000; grading and building bridges and culverts on 7.9 mi. Fort-to-Fort Highway, Federal Aid Joint Project 52-A-B-D, Wyandotte and Leavenworth Counties, 18 ft. wide, $100,000. L. C. Clark, Leavenworth, co. engr. Noted July 22.

Kan., Olathe—Until Sept. 3, by Comrs. Johnson Co., resurfacing 6.09 mi. Old Santa Fe Trail, Federal Aid Project 20, 18 ft. wide, bituminous macadam. About $180,000. C. G. Payne, Palo, engr.

Kan., Oswego—Until Aug. 24, by city, furnishing labor and material improving various roads, involving 5,660 lin.ft. combined curb and gutter and 21,125 sq.yd. bituminous macadam, asphaltic concrete or brick. J. F. Wasket, clk.

Kan., Troy—Until Aug. 27, by Comrs. Doniphan Co., grading 6.103 mi. Pike's Peak Highway, Federal Aid Projct 52, Sects. A-B-C, 18 ft. wide, also building 16 ft. span, with 20 ft. roadway and rein.-con. culvert on Sect. Z. About $61,000. D. Atkins, co. engr. Noted July 22.

Mont., Forsyth—Until Aug. 10, by Comrs. Rosebud Co., grading and graveling 10 mi. Federal Aid Project 114, 24 ft. wide, involving 24,470 cu.yd. common excav., 11,337 cu.yd. surfacing, 161 cu.yd. Class "A" and 33 cu.yd. Class "B" concrete in drainage structures, 8,407 lb. reinforcing steel, 11,364 ft. lumber, etc. About $75,000.

Missouri—Until Aug. 20 (change date), by State Highway Dept., St. Jos building .376 mi. Frederick Ave. Rd ft. wide, Federal Aid Project 94. A $30,998. Noted July 29.

Mo., New Madrid—Until Aug. 9, by Madrid Co., improving 19.3 mi. Sect State Rd., Project S. 18.93, 24 ft. involving 75,685 cu.yd. earth excav., 24 cu.yd. borrow, 36.3 cu.yd. Class "B" 121.9 cu.yd. Class "C" concrete, 930 l 12-24 in. vitr. pipe culvert, etc. Cost $ 417. C. V. Hansen, highway engr.

Mo., St. Joseph—Until Aug. 20, by C Buchanan Co., improving State Rd., P ect 49. Sect. A involves grading and la tile under-drain on 20.02 mi. St. Jos Atchison State Rd., Sect. B, building verts and 5 bridges and Sect. C, conc paving, etc. J. D. Mohler, co. engr.; vertised in this issue. Noted July 29 un "Missouri."

Arkansas—Until Aug. 18, by Comrs. Rd. Impvt. Dist. No. 4, Garland Co., at office of State Highway Comn., Little Rock, building 1.78 mi. bituminous macadam and 7.92 mi. gravel surfacing in Rd. Impvt. Dist. 4 Garland Co. Work involves 39,804 lin.ft. fence moving, 525 lin.ft. new fence building, 25.23 acres clearing and grubbing, 7,300 cu.yd. solid rock, 11,750 loose rock, and 30,150 cu.yd. earth excav., 42,000 lb. reinforcing steel, 150 ft. steel truss bridge, 13,800 sq.yd. bituminous macadam and 11,326 sq.yd. gravel surfacing, etc. G. C. Smith, Hot Springs, engr.

Tex., Groesbeck—Until Aug. 10, by Comrs. Limestone Co., improving 23.37 mi. State Highway 14, in Groesbeck, Thornton and Gosse Dists., involving 25 acres clearing and grubbing, 101,000 cu.yd. earth borrow, 33,000 cu.yd. excav., 1,200 cu.yd. overhaul, 142,000 lb. reinforcing and 73,200 lb. structural steel, 1,109 cu.yd. Class "A," 1,185 cu.yd. Class "B," 58 cu.yd. Class "C" and 14 cu.yd. 1:2:3 concrete, 39,914 cu.yd. crushed stone hauled first ¼ mile and 215,000 cu.yd. crushed stone hauled additional ¼ mile, etc. J. E. Bradley, co. judge.

Oklahoma—Until Aug. 10, by H. Wood, comr. Highways, Oklahoma, grading and graveling 21 mi. Jefferson Highway through McIntosh Co.

Col., Denver—Until Aug. 15, by city, paving 10 block Alley Paving Dist. 58, 16 ft. wide, involving 9,800 sq.yd. concrete. About $25,000. J. B. Hunter, city engr. Noted Jan. 15.

Arizona—State Highway Comn., Phoenix, receiving bids building 15 mi. Old Trails Highway from Flagstaff to Williams, Coconino Co., involving 120,000 cu.yd. earth excav. and embankment.

Oregon—Until Aug. 10, by State Highway Comn., Salem, grading 7.86 mi. Haines Northpowder Sect. Old Oregon Trail, Baker Co., involving 63,000 cu.yd. excav.; gravel surfacing 5 mi. Oregon City Multnomah Co. Line Sect. Pacific Highway, Clackamas Co., 10,000 cu.yd. surfacing; gravel or rock surfacing 15 mi. John Day River Blalock Sect. Columbia River Highway, Gilliam Co., 32,000 cu.yd. surfacing; granite surfacing 6 mi. Green Springs Mountain Sect. Pacific Highway, Jackson Co., 9,360 cu.yd. surfacing; grading, graveling or rock surfacing 9.73 mi. Grantspass Pleasant Valley Sect. Pacific Highway, Josephine Co., 50,000 cu. yd. excav. and 15,600 cu.yd. surfacing; rock surfacing 7.25 mi. Toledo Newport Sect. Corvallis Newport Highway, Lincoln Co., 15,000 cu.yd. surfacing, 5 mi. West Sect. Corvallis Newport Highway, Benton Co., 10,000 cu.yd. surfacing, 12.8 mi. Cabbage Hill Deadman's Pass Sect. Old Oregon Trail, Umatilla Co., 24,000 cu.yd. surfacing; surfacing 9.02 mi. Mosier Rowena Sect. Columbia River Highway, Wasco Co., 15,800 cu.yd. surfacing. H. Nunn, state highway Engr.

Que., Three Rivers—Until Aug. 18, by city paving 3 streets, involving 41,250 ft. asphalt or concrete, 9,850 lin.ft. concrete curbing and 5,000 lin.ft. concrete sidewalks; paving 2 streets, 5,500 ft. 2 in. asphalt. About $255,000 and $16,300 respectively. A. Lambert, Three Rivers, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract paving Public Alleys 710 and 818, granite block, to J. Landis, $11,084; Faulkland Terrace, to J. J. Lane, $13,964. Noted July 29.

Mass., Dorchester (Boston P. O.)—City received bids laying granite block pavement on Dudley St. from Alexander to Stoughton Sts., from De Stefano Bros., $28,812; J. McCourt Co., 46 Wait St., Brookline, $28,932; J. A. Singarella, 220 Devonshire St., Boston, $29,081.

Streets and Roads (Continued)

★**Conn., New Britain**—Amer. Hardware Corp., Franklin Sq., let contract for 3,000 sq.yd. 6 in. concrete pavement, at Corbin Lock Co., Plant, to J. H. Grozier Co., 721 Main St., Hartford.

★**N. Y., New York**—H. H. Curran, pres. Manhattan Boro., let contract repairing with sheet asphalt Bway. and West 36th St., to Uvalde Asphalt Paving Co., 1 Bway., $45,835 and $23,611 respectively; East 82nd, East 51st and West 12th Sts., to J. L. Brusstar, Harlem River and 150th St., $37,171, $22,470 and $30,413 respectively. Noted July 22.

★**N. Y., New York**—H. H. Curran, pres. Manhattan Boro., let contract repaving with asphalt block East 97th St., to Hastings Paving Co., 25 Broad St., $18,816; Mt. Morris Park, to Asphalt Constr. Co., 2197 Madison Ave., $62,072; with sheet asphalt Dykeman St., to Davney Asphalt Co., Inc., 438 East 91st St., $84,622. Noted July 15.

★**N. Y., New York**—H. H. Curran, pres. Manhattan Boro., let contract repaving with sheet asphalt West 86th St. and with asphalt block, West 18th St., to Cleveland Trinidad Paving Co., Flushing, $33,868 and $20,931 respectively; with sheet asphalt 125th St., to Sicilian Asphalt Paving Co., 41 Park Row, $97,304; Bway., to Uvalde Asphalt Paving Co., 1 Bway., $267,378; with asphalt block, 86th St., to A. J. Kearns Co., $11,268. Noted July 29.

N. Y., New York—G. A. Whalen, comr. plant & structures, Municipal Bldg., received lowest 3 bids July 29, building footwalk flooring on north side of Williamsburg Bridge, from Diaz Constr. Co., $37,719; L. J. Rice, $43,511; C. Meade Co., 38 Park Row, $44,100. Noted July 22.

N. J., Jersey City—City received low bid paving Van Winkle and Seaview Aves., asphalt, from W. T. S. Crichfield, 85 Washington St., Hoboken. Noted May 20.

★**N. J., Morristown**—Bd. Freeholders Morris Co. let contracts improving 2.4 mi. Towaco-Lincoln Park Rd., also 2.2 mi. Boonton-Parsippany Rd., concrete, to Northern Constr. Co., 423 Amherst St., East Orange, $121,900 and $111,300 respectively; repairing 14,800 sq.ft. Mendham Rd., 1st section to be concrete surface, 2d, amiesite, to Gray Constr. Co., Franklin St., $130,000.

★**Pennsylvania**—State Highway Dept., Harrisburg, let contracts paving 2.635 ft. Route 133, Millbourne Boro. and Upper Darby Twp., 18-29 ft. wide, Delaware Co., also 7,441 ft. Routes 165 and 166, Bangor Boro., 18-33 ft. wide, Northampton Co., to C. E. Weed, Inc., Albany, N. Y., $36,084 and $110,673 respectively; 13,625 ft. State Aid Application 965, Derry Twp., 18 ft. wide, Westmoreland Co., to M. Bennett & Son, Indiana, $190,931., all 1 course rein.-con. Noted June 24.

Pa., Pittsburgh—City received bids July 26, grading, paving and curbing Woodville Ave. from Independence St. to Bankville Ave., from T. Cronin Co., 18th and Fox Sts., $58,739; J. H. McQuade Sons Co., Bakewell Bldg., $61,293; Booth & Flinn, Ltd., 1942 Forbes St., $66,936. Noted July 22.

Pa., Pittsburgh—City received bids July 26, (a) repaving Henderson St. from Federal to Carrie Sts., (b) improving roadways in Riverview Park, from M. O'Herron Co., South 1st and McKean Sts., (a) $18,577, (b) $61,780; J. J. Ryan, Pittsburgh, (a) $20,328; J. H. McQuade Sons Co., Bakewell Bldg., (a) $21,209; F. and F. Duilus, 40 Boundary St., (b) $65,581; G. S. White Co., Jenkins Arcade, (b) $65,690. Noted July 22.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let contract building .79 mi. state highway through town of Elkton, Contr. CE-31, to Broad Creek Contg. Co., Elkton, $29,819. Noted July 22.

Maryland—State Rds. Comn., 601 Garrett Bldg., Baltimore, received bids Aug. 2, paving .11 mi. Cathedral St., sheet asphalt, Contr. BC-32, from Baltimore Asphalt Block & Tile Co., Laurens and Monroe Sts., $13,247 for 6 in. concrete base, $14,275 for 8 in. concrete base. Noted July 22.

Maryland—State Rds. Comn., 601 Garrett Bldg., Baltimore, received bids Aug. 2, building .44 mi. state highway through town of Cambridge, Contr. D-14, .3 mi. through town of Hurlock, Contr. D-21 and .44 mi. through town of Sharptown, Contr. WI-12, from Peninsula Constr. Co., Bridgeville, Del., $15,657, $11,903 and $18,035 respectively; .67 mi. through town of Taneytown, Contr. CI-30, concrete, from A. S. Sedell, Continental Bldg., Baltimore, $28,253.

W. Va., Charleston—City received bids paving (a) 2 blocks Virginia St., (1) wood block, (2) sheet asphalt, (b) 4 blocks Court St., (c) alley west of Ruffner Ave., from Loescher & Wiley, Charleston, (a1) $27,000; Fogle & Co., Charleston, (a1) $26,000; (a2) $22,000; (b) $50,000; (c) $1,000. Noted July 8.

★**W. Va., Winfield**—Comrs. Putnam Co. let contract grading and draining 2 mi. road Union Dist., to J. O. McDermott, Ambrosia, $28,065. Noted July 22.

★**North Carolina**—State Highway Comn., Raleigh, let contract gravel surfacing 3.58 mi. Federal Aid Project 109, 16 ft. wide, Burke Co., to C. E. Teague, Columbia, S. C., $49,945. Noted Jan. 1.

★**North Carolina**—State Highway Comn., at div. office, Ashville, let contract top soiling 10.3 mi. Federal Aid Projct 78, 16 ft. wide, Rutherford Co., to Ross Bros., Fredericksburg, Va. Noted July 1.

★**N. C., Mocksville**—City rejected bids paving Depot and Main Sts. asphalt on broken stone base. Work will be done by day labor under supervision of N. S. Millican, engr., Mocksville. About $60,000.

★**O., Canton**—Comrs. Stark Co. let contract improving 3 mi. Alliance-Limaville Rd., with 4 in. course waterbound slag overlaid with 3 in. course bituminous filling, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria. About $92,000.

O., Cleveland—Bd. Comrs. Cuyahoga Co. received bids grading 26,000 cu.yd. Pleasant Valley Rd., from Conners & Nelson, Berea, $23,910; H. L. Carr, Frederick Bldg., Cleveland, $25,890.

★**Michigan**—State Highway Dept., Lansing, let contract grading, draining and surfacing 2.558 mi. State Trunk Line Rd. 12-13, Machinac Co., 16 ft. wide, involving 8,006 cu.yd. earth excav., 23,997 sq.yd. gravel surface, 10,818 yd. station overhaul, 106 lin.ft. pipe culverts, 43.4 cu.yd. concrete in culverts, etc., to Rd. Comrs. Machinac Co., St. Ignace, $35,513; 3.007 mi. State Trunk Line Rd. 12-17, Schoolcraft Co., 16 ft. wide, 12,149 cu.yd. earth excav., 28,218 sq.yd. gravel surface, 57,525 yd. sta. overhaul, to Rd. Comrs. Schoolcraft Co., Manistique $47,148.

★**Michigan**—State Highway Dept., Lansing, let contact grading, draining and surfacing 6.232 mi. Federal Aid Project 26, Sects. B and C, 16 ft. wide, Antrim Co., involving 22,905 cu.yd. earth excav., 58,500 sq.yd. gravel, etc., to C. Bye, 442 Webster St., Traverse City.

★**Mich., Monroe**—Comrs. Monroe Co. let contract breaking up old bituminous concrete, widening grade and placing macadam on 4.41 mi. State Trunk Line Rd. 10-27, involving 17,248 cu.yd. earth excav., etc., to R. D. Baker Co., 1454 Penobscot Bldg., Detroit, $126,557. Noted July 15.

Ill., Chicago—Cook Co. received bids paving Sect. 61, 15-D, Route 9-C, Canfield Rd., involving (a) 8,293 sq.yd. portland cement concrete, (b) 6,416 sq.yd. earth shoulders, (c) 453 cu.yd. excav., (d) 202 ft. 10 in. vitr. tile, (2) Sect. 66, 15-D, Archer Ave., (a) 48,871 sq.yd. concrete, (b) 28,320 sq.yd. earth shoulders, (c) 21,257 cu.yd. excav., (d) 292 cu.yd. earth borrow, (e) 54 ft. 12 in. tile sewer pipe, (f) 222 ft. 18 in. tile, (g) 104 ft. 24 in. tile, (h) 180 ft. 30 in. tile, (i) 558.8 cu.yd. concrete in bridges, (j) 50,658 lb. reinforcing steel, etc., from Standard Paving Co., 326 West Madison St., (1a) $3.87 per sq.yd., (1b) $0.35, (1c) $2, (1d) $2, total cost, $36,121; States Constr. Co., Chicago, (1a) $3.50, (1b) $0.15, (1c) $1.75, (1d) $1.25, $31,500; J. A. Sackley Co., 133 West Washington St., (2a) $3.75, (2b) $0.15, (2c) $1.50, (2d) $1.50, (2e) $2, (2f) $2.50, (2g) $3, (2h) $4, (2i) $35, (2j) $0.10, etc., $248,384; J. A. McGarry & Co., 189 West Washington St., (2a) $3.81, (2b) $0.17, (2c) $1.05, (2d) $2, (2e) $1.65, (2f) $2.25, (2g) $3.25, (2h) $6.05, (2i) $52, (2j) $0.07, etc., $250,548; Marquette Constr. Co., 133 West Washington St., (2a) $3.48, (2b) $0.15, (2c) $1.50, (2d) $1.50, (2e) $3, (2f) $4, (2g) $6, (2h) $10, (2i) $42, (2j) $0.09, etc., $241,434.

Ill., Chicago—Bd. Local Impvt., 207 City Hall, received bids July 20, paving (1) Christiana Ave. from Foster St. to point 607 ft. south, (2) East 52nd St. from Cottage Grove Ave. to Drexel Blvd., (3) North Lamon Ave. from Diversey St. to Oakdale Ave., (4) George St. from Crawford to Springfield Aves., (5) sections of Granville, Rosemont, Maplewood, Campbell and Artesian Aves., (6) sections of Grace, Warwick, Waveland, Patterson, Lamon, Lavergne, Le Claire, Laramie, Lockwood and Long Aves., from R. F. Conway Co., 133 West Washington St., (1) $14,019, (2) $11,780, (3) $22,594, (4) $41,658, (5) $110,650, (6) $410,865; White Paving Co., 17 North La Salle St., (1) $14,101, (2) $11,867, (3) $22,848, (4) $42,190, (5) $112,606, (6) $410,635; Amer. Asphalt Paving Co., 133 West Washington St., (1) $14,174, (2) $11,757, (3) $22,749, (4) $41,314, (5) $118,987, (6) $411,769. Noted July 22.

★**Ill., Chicago**—Bd. Local Impvts., 207 City Hall, let contracts paving (1) North Waller Ave. from Le Moyne St. to West North Ave., (2) alley between Blackhawk, Elk, Paulina and Bauman Sts., (3) alley between Congress, Harrison, Keeler and Kildare Sts., (4) alley between Leavitt St., Oakley Blvd., Wilmot and Milwaukee Aves., (5) alley between Van Buren and Congress Sts., Western and Campbell Aves., (6) alley between Wrightwood, Altgeld, Sawyer and Spaulding Aves., (7) alley between Milwaukee Ave., Augusta and Will Sts., (8) alley between Congress and Harrison Sts., Kilpatrick and Cicero Aves., (9) Lamon Ave. from Oakdale to Berry Sts., (10) Loomis St. from West 22nd St. to point 2,048 ft. south, (11) Loomis St. from point 500 ft. north of West 90th to West 93rd Sts., (12) West 105th St. from Wentworth Ave. to Chicago & Western Indiana R.R. right of way, (13) North Parkside Ave. from Le Moyne St. to West North Ave., (14) South Park Av. from East 91st to East 95th Sts., (15) South Leavitt St. from 136 ft. north of West 18th to West 22nd Sts., (16) South Avers Ave. from Roosevelt Rd. to West 14th St., (17) East 50th St. from Ellis to Woodlawn Aves., (18) North Leamington Ave. from West North Ave. to Hirsch St., (19) North Lorel Ave. from West North Ave. to Hirsch St., (20) West 104th St. from Wentworth Ave. to point 970 ft. west, (21) Trumbull Ave. from Augusta St. to West Grand Blvd., (22) Winona St. from North Clark St. to Bway., (23) sections of School, Henderson and Melrose Sts., Le Claire, La Vergne and Lamon Aves., (24) alley between East 43rd St., St. Lawrence and Champlain Aves., (25) alley between Roosevelt Rd., Ashland Ave., Washburn and Paulina Sts., (26) alley between Douglas Blvd., Kedzie Ave., West 14th and Troy Sts., (27) Bernard St. from Waveland to Elston Aves., (28) California Ave. from Devon Ave. to Albion St., (29) North Fairfield Ave. from Peterson to Granville Aves., (30) West 50th Pl. from Hoyne to Western Aves., (31) North Harding Ave. from Augusta to Division Sts., (32) Keystone St. from West End to Park Aves., (33) Moffatt St. from Western Ave. to Rockwell St., (34) North Oakley Blvd. from Berteau to Collom Sts., (35) Dakin, Byron, Berenice and Grace Sts. from Austin Ave. to point west of Meade St. and Meade St. from Grace St. to Irving Park Blvd., (36) sections of Lowell, Kildare, Tripp, Keeler, Kiona, Kelso, Kasson and Leland Sts., to Amer. Asphalt Paving Co., 133 West Washington St., (1) $10,668, (12) $10,568, (16) $28,664, (17) $26,648, (18) $27,891, (19) $26,717, (21) $10,029, (23) $171,999, (31) $22,365, (32) $7,700; Central Paving Co., 179 West Washington St., (2) $2,325, (4) $12,983, (6) $8,871, (7) $7,970; J. Dillon & Co., 178 West Washington St., (3) $5,107, (5) $6,607, (8) $6,058, (25) $9,252, (26) $5,969; R. F. Conway Co., 133 West Washington St., (9) $21,204, (15) $29,946, (22) $45,818, (27) $12,376, (28) $28,904, (29) $22,394, (30) $31,222, (33) $23,921, (34) $11,641, (35) $92,850, (36) $106,823; Ready & Callaghan Coal Co., 133 West Washington St., (10) $48,175; J. A. McGarry & Co., 189 West Madison St., (11) $52,769; Farr Bros. Co., 356 West 11th St., (12) $24,328, (20) $19,323; J. A. Sackley Co., 133 West Washington St., (14) $57,408; Contg. & Material Co., 3219 South Michigan Ave., (24) $4,000. Noted July 15 and 22.

Wisconsin—State Highway Comn., at div. office 2, Stephenson Bldg., Milwaukee, received bids July 26, grading and paving Milwaukee-Fond du Lac Rd., Federal Aid Project 160, Menomonee Falls, Waukesha Co., involving (a) 11,798 cu.yd. earth excav., (b) 200 cu.yd. rock excav., (c) 107 cu.yd. concrete in culverts, (d) 10,841 lin.ft. curb and gutter, (e) 10,183 sq.yd. concrete surfacing, 18 ft. wide, (f) 20,339 sq.yd. concrete surfacing, full width, (g) 200 ft. 12 in. vitr. pipe, (h) 732 ft. 18 in. vitr. pipe, (i) 50,940 lb. wire mesh, (j) 4,884 lb. reinforcing steel, etc., from G. Czerwinski, 309 Mitchell St., Milwaukee, (a) $1.25 per cu. yd., (b) $4, (c) $30, (d) $1.19, (e) $1.88, (f) $1.90, (g) $2.25, (h) $3.50, (i) $0.055, (j) $0.07, etc.; C. Johnson, Oshkosh, (a) $1.30, (b) $5, (c) $28, (d) $1.20, (e) $2.03, (f) $2, (g) $2.50, (h) $3.50, (i) $0.07, (j) $0.06, etc. Noted June 24.

Ia., Osceola—City received bids paving 2 mi. various streets, 40 ft. wide, asphalt, from L. L. Beye, Eldorado, $152,544; Amer. Paving Co., $155,443; Allied Contr., Inc., 4616 Harmon St., Omaha, $160,230. Noted July 1.

Streets and Roads (Continued)

★**Minn., Brainerd**—Crow Wing Co. let contract grading 13.3 mi. Job. 1908, State Rd. 1, 24 ft. wide, to Franzen Bros., Palisade, $27,120. Noted July 29.

★**Minn., Brainerd**—Crow Wing Co. let contract building 4.5 mi. Co. Job. 1910, State Rd. 8, involving 33 acres clearing and grubbing, 67,529 cu.yd. excav., 9,770 cu.yd. overhaul, etc., to A. P. Chenevert, Outing, $45,261.

Minn., Fergus Falls—Ottertail Co. let contract building 8.45 mi. Federal Aid Project 160, Job 2,002, involving 44,000 cu.yd. excav. 610 lin.ft. 5-18 in. concrete culverts, loading and hauling 5,500 cu.yd. c.ay surfacing, one 6 x 48 ft. concrete culvert, one 60 ft. steel bridge, etc., also 9 mi. Federal Aid Project 159, Job 2,001, 33,000 cu. yd. excav., 742 lin.ft. 15-18 in. concrete culverts, etc., to D. Daggett, Frazee, $75,981 and $43,156 respectively. Noted June 17.

★**Minn., Mora**—Kanabec Co. let contract grading and graveling 16 mi. Federal Aid Project 9, State Rd. 2, involving 98,131 cu. yd. excav., 5,323 cu.yd. hand ditch, 2,623 lin.ft. 12-36 in. pipe, 26,857 cu.yd. gravel surfacing material and 1,950 lin.ft. 8 in. tile, to J. J. and M. S. Mergens, 403 Kasota Block, Minneapolis. About $139,000. Noted June 24.

★**Minn., Redwood Falls**—Comrs. Redwood Co. let contract graveling 9 mi. Federal Aid Project 13, State Rd. 10, also 7 mi. Federal Aid Project 109, State Rd. 5, both 24 ft. wide, to C. H. Windsor, Montevideo, $16,116 and $22,212 respectively. Noted June 29.

Minn., St. Paul—City received bids July 26, paving Fairfield Ave. between Robert and State Sts., State St. between Fillmore Ave. and St. Lawrence St. and Indiana Ave. btween Robert and State Sts., 30 ft. wide, from White Constr. Co., 203 Flatiron Bldg., $73,000; Fielding & Shepley, Griggs and Fuller Sts., $73,552.

★**Kan., Cottonwood Falls**—Chase Co. let contract grading and building culverts on 2.898 mi. New Santa Fe Trail, Federal Aid Project 47 A, 18 ft. wide to Meade Constr. Co., Abilene, $22,792. Work involves 18,000 cu.yd. earth excav., 5.7 ton steel and 300 cu.yd. Class "A" concrete.

★**Kan., Garden City**—Finney Co. let contract paving, grading and building bridges on 10.104 mi. Sante Fe Trail, Federal Aid Project 22, Sects. F-G-H-I, 18 ft. wide, 2 course concrete, to M. R. Ammermann, Wichita, $441,153.

Missouri—State Highway Dept., Albany, received bids July 23, building 8.86 mi. Sect. A, Jefferson Highway, 24 ft. wide, Federal Aid Project 54, Gantry Co., from Land Grading Co., Ballinger Bldg., St. Joseph, $47,942; Cook & O'Brien, Kansas City, $48,947; Schmidt-Daily, Kansas City, $49,100; 4.93 mi. Sect. B, from Universal Constr. Co., St. Joseph, $147,328. Noted July 8.

★**Mo., Kansas City**—City let contract grading, widening and repaving Main St. from Hunter Ave. to 39th St., including grading of parkway and resetting of trees, involving 19,035 sq.yd. sheet asphalt, to Parker Washington Co., 2309 Pennsylvania St., at $5.84 per sq.yd., total $111,164.

★**Tex., Denton**—Denton Co. let contract gravel surfacing Highways 40 and 40 A, Federal Aid Project 143, to McElwrath & Rogers, Corsicana, $139,320.

★**Tex., Fairfield**—Freestone Co. will grade and drain 14.67 mi. Highway 32, Federal Aid Project 122 S, 16 ft. wide Cost, $26,658. Work will be done by day labor. Noted June 10.

★**Tex., La Grange**—Fayette Co. let contract grading Highway 3, Federal Aid Project 37, to S. L. Robertson, $72,829.

★**Tex., Wichita Falls**—Wichita Co. let contracts improving 8.81 mi. Highway 2, Federal Aid Project 3, and 4.68 mi. Highway 61, Federal Aid Project 61, concrete, to Potts & Prentice, $455,365 and $193,480 respectively.

★**Nevada**—State Highway Comn., Carson City, let contract paving 1.8 mi. road from Gardnerville to Minden, Douglas Co., to Bishop & Griscom, Reno, $38,219.

Wash., Seattle—City let contract paving (1) 24th Ave., et al, involving 3,525 sq.yd. 7 in. concrete paving and 3,525 lin.ft. type "R" armored concrete, (2) Republican St., et al, 2,475 lin.ft. type "C" armored concrete, 5,800 sq.yd. asphalt paving and 1,475 sq.yd. concrete walks, (3) 25th Ave. N. W., et al, 10,380 sq.yd. concrete walks, 3,000 lin.ft. 3 in. sewer pipe and 1,000 lin.ft. 3 in. tile drain, from F. N. Badolato & Co., Green Bldg., (1) $39,219, (2) $35,175; Jahn & Bressi, New York Bldg., (1) $39,818; R. G. Stevenson, 1327 Ewing St., (1) $40,450; J. L. Smith, Pioneer Bldg., (2) $34,578, (3) $22,154; Sparger Constr. Co., Colman Bldg., (2) $35,689; D. H. Traphagen, Walker Bldg., (3) $23,153; Meade & Alpin, 1255 John St., (3) $26,190.

Wash. Seattle—King Co. received bids July 26, grading and graveling 2 mi. Shanahan-Glen Acres Rd., 20 ft. wide, involving 38,000 cu.yd. earth excav., 7 acres clearing, 5½ acres grubbing and 3,000 cu.yd. gravel, from Hansen & Haugl, Seattle, $41,800; H. Pederson, Alaska Bldg., $47,000; W. A. Kupoff, L. C. Smith Bldg., $47,625.

Oregon—State Highway Comn., Portland, received bids July 20, grading 11.2 mi. Goldson Sect., Lane Co., involving 97,500 cu.yd. excav., from Washburn & Hall, Bway. Bldg., Portland, $121,820; Lane Co. Court, Eugene, $133,793; Rojette, Fobert & Winters, $155,345.

★**Oregon**—State Highway Comn., Portland, let contract grading and rocking 7.6 mi. McMinnville-Tillamook Highway, Polk Co., involving 12,300 cu.yd. excav., 20,000 cu.yd. surfacing, to Elliott & Scoggin, McKay Bldg., Portland, $98,255; graveling 14.8 mi. Columbia River Highway, Sherman Co., 37,500 cu.yd. surfacing, to Porter & Conley, Ry. Exch. Bldg., Portland, $108,000; building rein.-con. culverts between Comstock and Lane Co. line, Douglas Co., 105 cu.yd. concrete, 9,000 lb. metal reinforcement, 20 ft. 24 in. corrugated iron pipe and 84 ft. 12 in. concrete pipe, to S. L. Godard, Cottage Grove, $4,461.

Ore., Portland—City received bids July 21, grading and building sidewalks on (a) 92nd St. S. E. from 45th Ave. S. E. to 68th Ave. S. E., (b) paving Russett St. from Vancouver to Union Aves., (1) asphaltic concrete No. 1, crushed rock base in roadway, (2) concrete No. 3, in roadway, from S. Simonsen, (a) $17,028; Cochran Bros., 415 South Syracuse St., (a) $17,917, (b2) $23,238; Warren Constr. Co., Journal Bldg., (b1) $22,881.

★**Cal., Napa**—Comrs. Napa Co. let contract building 7 mi. concrete highway from Trubody Sta., to R. J. Blanca, 1713 Sutter St., Vallejo, $130,205.

★**B. C., Delta**—Municipality let contract paving 5.07 mi. Ladner Trunk Rd., 14 ft. wide, bituminous macadam on existing macadam base, to Palmer Bros., 929 Main St., Vancouver. About $70,000.

★**B. C., South Vancouver**—City let contract subgrading and paving with asphalt on 6 in. concrete base, 1.26 mi. Kingsway from Earle to Clark Sts., 14 ft. wide, to Cotton Co., Ltd., False Creek Yards, Vancouver. About $50,000.

Railways

PROPOSED WORK

Michigan—Street Ry. Comn., 410 City Hall, Detroit, ordered plans and estimates made for excavating, laying foundation, ties, rails and special work for 12 mi. double track street railway on Joy Rd., Clairmont, Owen and Holbrook Aves. from Grand River to Conant Aves. About $800,000. W. C. Markham, 410 City Hall, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Michigan**—Detroit United Ry., Interurban Bldg., Detroit, will build extensions on Saginaw, Chamberlain, Edison and Glendale Aves., double track connection to existing line on Saginaw and Oakland Aves., South Blvd., Sanford and East Pike, with loop connecting with existing lines on Saginaw St. About $450,000. Work will be done by day labor.

★**Michigan**—Street Ry. Comn., 410 City Hall, Detroit, let contract furnishing f.o.b. Detroit, fifty-five thousand 6 in. x 10 in. x 6 ft. 8 in. seasoned white oak ties, to Allied Sales Corp., Montgomery, Ala., at $2.74 each, total $150,700. Noted July 15.

Excavation and Dredging

PROPOSED WORK

Tenn., Memphis—Ditch—Big Creek D. D., Shelby Co., having plans prepared by Gaines & Carlisle, engrs., Falls Bldg., Memphis, enlarging Big Creek by building 18 mi. ditch, 10 ft. deep, 26 ft. bottom, also 21 mi. laterals, 4-8 ft. wide, involving 260,000 cu.yd. dry earth excav. and 860,000 yd. floating dredgework in old channel. About $220,000.

Tenn., Memphis — Levee — Horn Lake Levee & D. D., Shelby Co., having plans prepared by Gaines & Carlisle, engrs., Falls Bldg., Memphis, for 12 mi. levee.

Ill., East St. Louis—Levee—East Side Levee & Sanitary Bd., 225 Collinsville Ave., authorized $300,000 bond issue to build levees and improve drainage system in and in vicinity. H. S. Kramer, East St. Louis, engr.

Ia., Des Moines—Levee—Des Moines Co. plans to build 3 to 5 ft. addition to levee in Dist. 16 between here and Louisa Co. About $500,000. Engineer not selected.

Ia., Mason City—Drainage—Cerro Gordo Co. rejected bids received July 20, building Joint D. D. 1, involving 131,000 ft. 6-40 in. tile. Cost to exceed $25,000. New bids in October. Noted July 8.

Wyoming—Irrigation—W. M. Carpenter, Security Bldg., St. Louis, Mo., organized syndicate to irrigate 40,000 acres in Green River Valley, Wyo. Work includes laterals, headgate and 18 mi. canal, 4 ft. deep, 14 ft. bottom and 30 ft. top width. H. Phillips, 201-202 Fullerton Bldg., St. Louis, Mo., consult. engr.

Ariz., Phoenix — Irrigation — Paradise-Verde Irrigation Dist. plans to build irrigation and power system. Cost between $16,000,000 and $20,000,000. A. L. Harris, Phoenix, engr.

BIDS DESIRED

Ia., Clarion—Ditch—Until Aug. 9, by D. H. Eyler, aud. Wright Co., building Drain Ditch 187, in Blaine and Vernon Twps., involving 65,294 cu.yd. excav., 41,670 ft. 6-28 in. tile, 240 ft. 12-15 in. culverts. About $25,000.

Minn., Albert Lea—Ditch—Until Aug. 18, by F. Tavis, aud. Freeborn Co., building County Ditch 34, involving 70,044 ft. 6-42 in. tile, 115 junction laterals, 48 catch basins, etc. About $32,000. J. H. Severson, Albert Lea, engr.

Ore., St. Helens—Dike, etc.—Until Aug. 14, Rainier D. D., Columbia Co., building 1,400 ft. dike, 33,000 yardage and 1,100 ft. ditch, 1,750 yardage and clearing 6 acres on right of way. G. J. Poysky, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ill., East St. Louis**—Canal and Levees—East Side Levee & Sanitary Bd., 225 Collinsville Ave., let contract building intercepting canal and levees, Project 12, to A. V. Wiles and H. J. Sternberg, Title Guarantee Bldg., St. Louis. About $1,500,000. Noted Feb. 5.

★**Minn., Mankato**—Ditch—Blue Earth Co. let contract for tile work building Ditch 57, to F. F. Esser, Mankato, $163,000; open work, to Mulgrew & Sons, Dubuque, Ia., $15,000.

Industrial Works

PROPOSED WORK

Mass., Cambridge—G. Lawrence, Inc., 24 Cambria St., having plans prepared by W. T. Littlefield, archt., 9 Hamilton Pl., Boston, for 1 story, brick and steel plant.

Mass., Worcester — H. W. Trulson, 35 Berksmans St., soon lets contract building 2 story, 90 x 115 ft., concrete and steel garage, rein.-con. flooring, concrete foundation, on Pleasant St. About $150,000. E. T. Chapin, 340 Main St., archt.

R. I., East Greenwich—Greenwich Mills, Division St., soon lets contract building 4 story, 80 x 90 ft., brick and mill construction addition to plant, concrete foundation. About 50,000. Private plans. Noted July 29.

R. I., Woonsocket—W. F. Fontaine, archt., Federal Bldg., soon lets contract building 2-story, 135 x 250 ft., brick and mill construction addition to plant, concrete foundation, for Lafayette Worsted Co., Hamlet Ave. About $200,000.

Conn., Bridgeport—A. Aldo, 1699 Madison Ave., soon lets contract building 1 story, 100 x 110 ft., brick and steel garage, cement concrete flooring, stone foundation, on North Ave. and Sedgwick St. About $50,000. F. A. Cooper, 1024 Main St., archt. Noted July 29.

Conn., Bridgeport—Amer. Fabrics Corp., Connecticut Ave. and Waterman St., soon lets contract building 1 story, 60 x 166 ft., brick and steel plant, cement flooring and foundation. About $50,000. Private plans.

Conn., Hartford—D. A. Guerriero, archt., 647 Main St., soon lets contract building 2 story, 80 x 80 ft., brick, concrete and steel garage, rein.-con. flooring, concrete foundation, on Morgan St., for D. D'Amico, 503 Albany Ave. About $50,000. Noted July 22.

Conn., Hartford—F. C. Walz, archt., 407 Trumbull St., soon lets contract building 1 story, 100 x 150 ft., brick, concrete and steel garage, rein.-con. flooring and foundation, for A. Goldstein, Maple Ave. About $100,000. Noted Feb. 5.

Industrial Works (Continued)

Conn., Hartford—B. A. Sellew, archt. and engr., 223 Asylum St., soon lets contract building 3 story, 43 x 90 ft., brick, concrete and steel plant, rein.-con. flooring, concrete foundation, for Hartford Mattress Co., Kilbourn St. and Blvd. Abou $50,000. Noted July 29.

Conn., Hartford—Backoff, Jones & Cook, archts., Union Bldg., Newark, N. J., soon let contract building 2 story, 60 x 100 ft., brick and mill construction factory, rein.-con. flooring, concrete foundation, for Home Tourist Candy Co., c/o architects. About $50,000. Noted May 27.

Conn., New Haven—Fritzell Brass Fdry. Co., 33 Chestnut St., having plans prepared by Fletcher-Thompson, Inc., archts. and engrs., 1089 Broad St., Bridgeport, remodeling old plant of International Leather & Belting Co., on Middletown Ave. for its own use.

N. Y., Buffalo—H. E. Plumer, engr., Ellicott Sq. soon lets contract building 10-story 82 x 100 ft. brick and rein.-con. warehouse for Knowlton Warehouse Co., 93 Perry St.

N. J., Edgewater—United States Aluminum Co. plans to build large addition to plant.

N. J., Jersey City—Cotton Textile Co., 383 Cator Ave., plans to construct 4 concrete factory buildings. About $50,000.

N. J., Jersey City—J. T. Ryerson & Sons, 230 Westside Ave., plans to build addition to plant, corrugated iron and steel, concrete foundations. About $50,000.

N. J., Newark—Patent Spring Bed Co., 235 Waverly St., having plans prepared by J. Tomley, archt., c/o owner, altering 3 story, 15 x 155 ft., concrete and brick factory, at 201 Norfolk St.

N. J., Trenton—J. Ashton, Jr., 13 North Warren St., plans to build 1 story, 100 x 140 ft. warehouse with 15 x 60 ft. wing, concrete and steel, on New York Ave. About $60,000. Karno-Smith Co., Broad St. Bank Bldg., engrs.

Md., Baltimore—See "Sewers."

Md., Baltimore—Coca Cola Co., Candler Bldg., Atlanta, Ga., plans to build rein.-con. and steel factory on Fort Ave. near Stephens Ave., here. About $1,000,000. C. H. Candler, in charge.

O., Cleveland—Amer. Turpentine Co. plans to build 3 story, 100 x 180 ft. factory, also 1 story, 24 x 40 ft. boiler house, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, along tracks of Beltline Ry. About $200,000. H. D. Tremmel, 136 Engineers Bldg., secy. Architect's name withheld.

O., Cleveland—Baker, Rauch & Lang Co., 2180 West 25th St., soon lets contract building 4 story, 65 x 110 ft., brick and steel factory, brick foundation, on West 25th St. and Chatham Av. About $100,000. G. S. Rider & Co., Century Bldg., engrs. and archts.

O., Cleveland—Cleveland Ry. Co., Leader-News Bldg., soon lets contract building 1 story, 37 x 128 ft. rein.-con., steel and brick garage and machine shop, rein.-con. flooring, concrete foundation, on Harvard Ave. About $60,000. G. Radcliffe, genl. mgr. D. W. Morrow, 4500 Euclid Ave., archt.

O., Cleveland—Kaynee Co., 6925 Aetna Rd., soon lets contract building 1 story, 60 x 180 ft. box factory and garage, brick and steel, brick foundation, on Aetna Rd. and Bway. About $60,000. E. C. Seitz, treas. Lockwood-Green & Co., Bangor Bldg., engrs. and archts.

O., Cleveland—Ohio Bronze Powder Co., 1120 East 152nd St., plans to build 2 story, rein.-con., steel and brick factory, rein.-con. flooring, concrete foundation. About $50,000. G. F. Glass, pres. Private plans.

O., Cleveland—Republic Electric Mfg. Co., 1820 East 18th St., opens bids about Aug. 8, building 3 story, 50 x 50 ft., rin.-con., steel and brick factory and office, rein.-con. flooring, concrete foundation, on East 18th St. and Chester Ave. About $100,000. L. Griesser, pres. J. M. Dyer, Amer. Trust Bldg., archt.

O., Cleveland—U. S. Molding Machine Co., 968 East 69th St., plans to build 1 story, brick and steel addition to factory, brick foundation. About $50,000. Architect not selected.

Mich., Detroit—Smith, Hinchman & Grylls, archts. and engrs., 710 Washington Arcade, soon let contract building 2 story, 60 x 117 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, for Zenith Carburettor Co., Hart Ave. About $70,000.

Ill., Chicago—A. S. Alshuler, archt., 28 East Jackson St., opens bids soon building 2 story, 90 x 115 ft., brick and timber factory, concrete foundation, at 108 South Desplaines St., for N. B. Austin Co., 700 West Jackson St. About $175,000.

Ill., Chicago—Commonwealth Edison Co., 72 Adams St., having plans prepared for 2 reactor buildings, one 15x350 ft. and other 20 x 200 ft., rein.-con.

Ill., Chicago—J. J. Neebe, archt., 2522 Aubert Ave., opens bids about Aug. 15, building 1 and 2 story, 100 x 108 ft. brick and timber garage and salesroom, rein.-con. flooring, concrete foundation, on Western St. near Montrose St., for A. Feasel, c/o architect. About $75,000.

Ill., Chicago—F. H. Hill Co., Washington and Morgan Sts., had plans prepared by Woltersdorf & Bernard, archts., 38 North La Salle St., for 7 story, 34 x 88 ft. mill construction addition to factory, concrete foundation. About $75,000.

Wis., Campbellsport—White House Milk Products Co. West Bend having plans prepared by M. Tullgren & Sons archts. 425 East Water St. Milwaukee for 1 story, 50 x 100 ft., brick and mill construction plant, rein.-con. flooring, concrete foundation, here.

Tex., Zavata—K. C. Minter plans to build 2 story frame factory. About $50,000. Private plans.

Que., Montreal—Ideal Garage and Serv. Co., Ltd., soon receives bids building garage. About $50,000.

Ont., Hamilton—Steel Wks. of Canada, Harvey Lane, soon receives bids building 1 and 2 story, concrete, brick and steel plant and foundry, concrete flooring and foundation. About $300,000. Private plans.

Ont., Lakefield—Canada Cement Co., 9 Herald Bldg., Montreal, plans to alter, repair, build addition and install new equipment in plant, here. About $500,000.

Ont., Toronto—Delcomania Co. of Canada, 364 Richmond St., having plans prepared by H. J. Charon, archt., 20 Wayland Ave., for 6 story, brick and steel factory, concrete foundation, on King St. About $200,000. Noted May 8.

Ont., St. Catharines—Niagara, St. Catharines & Toronto Ry., 27 Wellington St., E., Toronto, having plans prepared by G. C. Briggs, archt., 27 Wellington St., E., for 1 story, 60 x 150 ft., concrete, brick and steel, car shops, concrete flooring and foundation, here. About $60,000. Noted April 8.

Alta., Athabaska—Mackenzie Basin Fisheries soon receive bids building cannery on Black Bay. L. Baxter, Sydney, N. S., engr.

BIDS DESIRED

Pa., New Castle—Johnson Bronze Co., South Mill St., receiving bids constructing 52 x 68 ft. core building, 32 x 62 ft. machine shop, both 2 story, also 1 story, 68 x 101 ft. foundry, brick and steel, rein.-con. flooring, brick foundation. About $125,000. F. D. Chase, 645 North Michigan Ave., Chicago, engr.

La., New Orleans—Until Aug. 17, by Bd. Port Comrs., furnishing or furnishing and erecting all structural steel required for Pauline St. freight shed extension; advertised in this issue.

Tex., Abilene—Until Aug. 9, by State Bd. Control, Austin, building laundry at State Epileptic Colony, here. S. B. Cowell, chn. C. H. Pagne & Bro., Austin, archts.

Ont., St. Thomas—Until Aug. 12, by S. Gilbert, mgr., Canada Iron Fdry., rebuilding plant which was partially destroyed by fire and constructing several new buildings. About $150,000.

Alaska, Unalaska Island—Amer. Whale Products Co., 8 South Dearborn St., Chicago, Ill., receiving bids building whale oil plant on Udagak Bay, to include refinery, fertilizer plant, oil tanks and storage buildings. About $1,000,000. Woltersdorf & Bernard, 138 North La Salle St., Chicago, Ill., archts.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Boston & Maine R.R., North Sta., let contract building concrete and steel train sheds, to Tredennick Co., 10 High St. About $425,000.

★**Mass., Cambridge**—Presto Lite Co., Inc., Erie and Albany Sts., let contract building concrete foundation for twelve 1 story, brick and steel buildings, on Erie St., to J. A. Scully Foundation Co., 118 1st St., East Cambridge; steel contract, to Truscon Steel Co., 348 Sumner St., Boston. About $100,000.

★**Mass., Gardner**—Central Oil & Gas Stove Co. let contract building 3 story, 65 x 150 ft., brick and mill construction addition to plant, concrete foundation, to C. St. Hilaire, 60 Oak St.

★**R. I., Providence**—Lockwood, Greene & Co., archts and engrs., 60 Federal St., Boston, let contract to J. R. Bickford, 509 Westminster St., building 2 story, 110 x 170 ft., rein.-con. dye house, rein.-con. flooring, concrete foundation, for Franklin Process Co., 29 Promenade St. About $150,000. Noted July 22.

★**Conn., Bridgeport**—Crane Co., South Ave., let contract building 1 story, 100 x 219 ft., brick and frame warehouse, concrete flooring and foundation, to T. J. Pardy Constr. Co., 1481 Seaview Ave. About $50,000.

★**Conn., Naugatuck**—Naugutuck Chemical Co., Elm St., let contract building 2 story, 50 x 60 ft., brick, concrete, steel and hollow tile plant, rein.-con. flooring, concrete foundation, to Flynt Bldg. & Constr. Co., 356 Main St., Palmer, Mass. About $60,000.

★**Conn., New Haven**—New Haven Pulp & Board Co., Green St., let contract altering and building 1 story, brick, rein.-con. and steel addition to factory, rein.-con. flooring, concrete foundation, on Green and East Sts., to Levering & Garrigues Co., 552 West 23rd St., New York City. About $100,000.

★**Conn., Waterbury**—Berbecker & Rowland Mfg. Co., Waterville, let contract building 3 story, 41 x 176 ft., brick and mill construction addition to factory, here, to Torrington Bldg. Co., 197 Water St., Torrington. About $81,000.

★**N. Y., Brooklyn**—Pub. Serv. Comn., 49 Lafayette St., New York City, let contract building concrete foundations for storage yard, to Powers-Kennedy Co., 149 Bway., New York City, $407,889; furnishing and erecting steel, to Bigelow & Nichols, 45 East 42nd St., New York City, $387,400.

★**N. Y., Buffalo**—Parenti Motors Corp., 1760 Main St., let contract building 1 story, 100 x 350 ft., steel factory, at 616-632 Northumberland St., to B. T. Crocker Co., Builders Exch. About $100,000.

★**N. Y., New York**—Haffen Realty Co., 149th St. and 3rd Ave., let contract building 2 story, brick, concrete and steel factory, rein.-con. flooring, concrete foundation, on Southern Blvd. and 145th St., to Niewenhous Bros., 316-318 East 161st St. About $50,000.

★**N. Y., New York**—Sommerfeld & Steckler, archts. and engrs., 31 Union Sq., let contract to Brady-Butler Co., 18 West 34th St., building 7 story, 50 x 50 ft., brick, concrete and steel factory, rein.-con. flooring, concrete foundation, for Rigaud Perfume Co., 75 Barrow St. Noted July 15.

★**N. J., Paulsboro**—I. P. Thomas & Son Co. let contract constructing 1 story, 80 x 220 ft. fertilizer building, steel, to Austin Co., Bulletin Bldg., Phila.

★**N. J., Trenton**—Thermoid Rubber Co., Whitehead Rd., let contract building 1 story, 80 x 200 ft. addition to plant, concrete and steel, rein.-con. flooring, to Karno-Smith Co., Broad St. Bank Bldg. About $50,000.

★**N. J., Trenton**—J. E. Throop Sons Co., Lewis St., let contract building 1 story, 80 x 160 ft., concrete, brick and steel foundry, to Austin Co., Bulletin Bldg., Phila.

★**Pa., Essington**—Westinghouse Electric & Mfg. Co. let contract building 1 story, 120 x 200 ft., concrete and steel foundry, to Austin Co., Bulletin Bldg., Phila.

★**Pa., Norristown**—Wildman Mfg. Co. let contract building addition to foundry, rein.-con. and steel, rein.-con. flooring, concrete foundation, to Unifed Fireproofing Co., 8 West 40th St., New York City. About $75,000. Noted July 22.

★**Pa., Phila.**—Keystone Spinning Mill, 1631 North 2nd St., let contract remodeling mill and building 2 story, 60 x 95 ft. warehouse, rein.-con. and brick, on Turner and Palethorpe Sts., to W. R. Dougherty, 1608 Sansom St.

★**O., Akron**—Federal Warehouse & Storage Co., c/o G. Ball, archt., Metropolitan Bldg., let contract building 6 story, 80 x 100 ft., rein.-con., steel and brick warehouse, rein.-con. flooring, concrete foundation, on Furnace St., to Clemmer & Johnson, Metropolitan Bldg. About $200,000.

★**O., Alliance**—Transue Williams Co. let contract building 1 story, 100 x 200 ft., brick, concrete and steel factory, rein.-con. flooring, concrete foundation, to H. K. Ferguson Co., Vickers Bldg., Cleveland. About $75,000.

★**O., Cleveland**—Exide Battery Co., 5125 Perkins Ave., let contract altering 2 story, brick and steel factory, to G. W. Feaga Co., 5927 Euclid Ave. About $60,000.

Industrial Works (Continued)

★**O., Cleveland**—Ohio Electric Controller Co., 5900 Maurice Ave., let contract building 2 story, 38 x 110 ft., rein.-con., steel and brick addition to factory, rein.-con. flooring, concrete foundation, to Austin Co., 16112 Euclid Ave. About $60,000.

★**O., Columbus**—Timken Roller Bearing Co., 1025 Cleveland Ave., let contract building 1 story, 120 x 480 ft., steel and brick factory, to D. W. McGrath & Sons, New 1st Natl. Bank Bldg. About $100,000.

★**O., Greenville**—Greenville Gravel Co. let contract building 2 story, 80 x 120 ft. brick and rein.-con. mill, rein.-con. flooring, concrete foundation, on Jackson St., to Allied Builders Co., Greenville. About $100,000.

★**Mich., Detroit**—Detroit Insulated Wire Co., Wesson and Albert Sts., let contract building 3 story, 40 x 80 ft., rein.-con. and brick addition to factory, brick foundation, to A. W. Kutche, 623 Ford Bldg. About $80,000.

★**Mich., Detroit**—Wood Hydraulic Hoist & Body Co., 1789 Hartwick Ave., let contract building 2 story, 140 x 400 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, to W. Reynolds, c/o H. T. Millar, archt., 320 Lightner Bldg. Noted June 10.

★**Ill., Chicago**—Henshein & McLaren, archts., 37 West Van Buren St., let general contract to J. Rodatz, Rookery Bldg., constructing 3 story, 115 x 170 ft., rein.-con. and brick plant, rein.-con. flooring, concrete foundation, on West 39th St. and Emerald Ave., for D. Levi & Co., West 40th St. and Packers Ave. Total cost, $350,000. Noted July 22.

★**Ill., Kankakee**—M. Terman Produce Co. let contract building 2 story, 48 x 150 ft., rein.-con. and brick factory and warehouse, rein.-con. flooring, concrete foundation, on 15th St. along tracks of New York Central R.R., to Behrens Constr. Co., 1732 North Western Ave., Chicago. About $60,000.

★**Wis., Waukesha**—Waukesha Fdry. Co., 340 Bway., let contract building 1 story, 120 x 300 ft., brick and steel foundry, concrete foundation, to Federal Bridge & Structural Co., Lincoln Ave. About $50,000.

★**Ia., Davenport**—G. A. Koester, c/o Davenport Roofing Co., let contract building 3 story, 65 x 150 ft., concrete and brick garage, rein.-con. flooring, concrete foundation, on Front St., to H. Horst Co., Brumder Bldg., Milwaukee. About $150,000.

★**Ia., Des Moines**—Hawkeye Tire Co., 215 East 3d St., let contract building 4 story, 180 x 280 ft., rein.-con., brick and stone plant, rein.-con. flooring, concrete foundation, on East 18th and Court Aves., to J. A. Benson Constr. Co., 422 Valley Natl. Bank Bldg.; cost plus percentage basis. Cost to exceed $500,000.

★**Mo., Kansas City**—International Harvester Co., 606 South Michigan Ave., Chicago, let contract furnishing labor and material building 5 story, 116 x 144 ft., brick warehouse, rein.-con. flooring, concrete foundation, here, to L. Breitag, Ry. Exch. Bldg. About $200,000.

★**Mo., St. Louis**—F. Adams Electric Co., 3640 Winsor St., let contract building 1 story, 147 x 190 ft., brick addition to factory, to McCormick-Combs Constr. Co., Columbia Bldg. About $150,000.

★**Mo., St. Louis**—Producers Consolidated Oil Co., c/o A. D. Allen & Co., 515 Reliance Bldg., Kansas City, let contract building 100 gas filling stations, rein.-con., brick and stone, here, at Kansas City and along state roads, to A. D. Allen & Co. Cost between $9,000 and $10,000 each.

★**Ont., Ft. William**—Ft. William Pulp & Paper Co. let contract constructing plant, including 400 x 600 ft. and 300 x 300 ft. buildings, also several smaller units, concrete and steel, concrete and timber foundations along Mission River, to Barnett & McQueen Co., Ft. William. About $1,000,000; cost plus percentatge basis. Noted July 29.

Buildings

PROPOSED WORK

Me., Augusta—Hotel—Augusta House, 168 State St., having plans prepared by Bunker & Savage, archts., Augusta Trust Bldg., for large brick and steel addition.

Mass., Amherst—Church—St. Bridget Catholic Society, 34 Pleasant St., plans to build church. About $100,000. J. J. Beel, pastor. Architect not selected.

Mass., Boston—Laboratory—Gay & Proctor, archts., 50 Bromfield St., soon lets contract building 4 story, 40 x 61 ft. and 21 x 38 ft., brick and concrete, rein.-con. flooring, concrete foundations, on Bway. Extension, for Women's Educational & Industrial Union, 264 Boylston St.

Mass., Brookline (Boston P. O.)—Housing—H. Bolton Peek Corp., 1041 Little Bldg. Boston, having plans prepared by C. T. McFarland, archt., 162 Newbury St., Boston, for houses for work men, at Blake Park, here. About $1,000,000.

Mass., Cambridge—Hospital—E. T. Graham, archt., 20 Beacon St., Boston, soon lets contract building 3 story, 80 x 140 ft., brick, concrete and steel addition, rein.-con. flooring, concrete foundation, on Cambridge St., for City Hospital Comn. About $200,000.

Mass., Clinton—Housing—Lockwood, Greene & Co., archts. and engrs., 60 Federal St., Boston, soon lets contract building 2 story, brick, frame and stucco houses for workmen, concrete foundations, for Lancaster Mills. About $200,000.

Mass., Dedham—Club—Dedham Country & Polo Club having plans prepared by Richardson, Barott & Richardson, archts., 8 Beacon St., Boston, for 2 story, stone and frame.

Mass., Fall River—Temple—Masonic Societies plan to build 4 story, brick, concrete and steel, on North Main and Elm Sts. Architect not selected.

Mass., Lawrence—Church and School—St. Mary's Roman Catholic Society, Haverhill St., soon lets contract building 1 story, brick and stone church and 3 story, 50 x 100 ft. brick and steel school, concrete foundation, on Ames and Lowll Sts. About $125,000. J. T. Reilly, pastor. E. T. P. Graham, 20 Beacon St., Boston, archts.

Mass., Needham (Boston P. O.)—School—School Comn. plans to build brick and steel. About $125,000. Architect not selected.

Mass., Westfield—Theater—F. Schmidt, 24 School St., plans to build 1 and 2 story, brick and concrete, on School St. About $100,000. Architect not selected.

Conn., Hartford—Club and Lodge—Sons of St. George plans to build 4 story, brick, concrete and steel. About $100,000. A. Harrington, chn. Architect not selected.

Conn., New Britain—Club—Knights of Columbus, 434 Main St., plans to build brick and steel, on Franklin Sq. and Pearl St. About $100,000. Architect not selected.

Conn., New Haven—Store and Lofts—F. Teitelman, 146 State St., having plans prepared by C. H. Abramowitz, archt., 1st Natl. Bank Bldg., for 5 story, 60 x 70 ft., brick and mill construction, concrete foundation. About $100,000.

Conn., Waterbury—Auditorium—C. J. Bailey, archt., 95 Bank St., soon lets contract building 1 story, brick and concrete, on South Main St. About $125,000. Owner's name withheld.

Conn., Waterbury—Hospital—City Health Bd. having revised plans prepared by Cross & Cross, archts., 681 5th Ave., New York City, and soon receives bids building 2 story, with 2 wings, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Watertown Ave. About $200,000.

N. Y., Brooklyn—Nurses Home—Dept. Pub. Welfare, Municipal Bldg., New York City, rejected bids received July 15, building and completing additions on grounds of Kings Co. Hospital, Clarkson St., here. About $200,000. Work will be readvertised. Noted July 22.

N. Y. Syracuse—Schools—Common Council authorized $480,000 bonds to complete and improve 4 schools.

N. J., Jersey City—Church—St. Ann's Congregation plans to build new brick church. Cost to exceed $100,000. Architect not selected.

Pa., Germantown (Phila. P. O.)—Y. M. C. A., 5849 Germantown Ave., having plans prepared by Martin & Kirkpatrick, archts., 130 South 15th St., Phila., for concrete, brick and steel, on Haines St. and Germantown Ave. About $400,000.

Pa., Huntingdon—Dormitory—Juniata College rejected bids June 1, building 3 story, 27 x 32 x 39 x 85 ft., brick. Work will be readvertised. Noted May 27.

Pa. Pittsburgh—Theatre—All Nations Arcade Co. c/o G. H. Schwan archt., Peoples Bank Bldg. opens bids about Aug. 10, altering present building and constructing 3 story, 86 x 120 ft. concrete, brick and steel addition, rein.-con. flooring, at 1915 Carson St. About $100,000.

Md., Baltimore—See "Sewers."

W. Va., Charleston—Schools, etc.—Y. W. C. A. had plans prepared by C. D. McLane, archt., Chicago, for 3 story, 80 x 125 ft. building, including 24 x 60 ft. swimming pool and 50 x 70 ft. gymnasium on Quarrier St. About $160,000. Address F. Woodman, 1210 Kanawha St.

W. Va., Clarksburg—Church—C... Protestant Episcopal Church plans to ... 1 story, stone, on 6th and West Main ... About $100,000. C. J. Carter, rector ... & Ferguson, 15 Beacon St., Boston, M... archts.

N. C., East Spencer—School—City ... election to vote on $100,000 bond issue ... build school. Architect not selected.

N. C., Lake Junaluska—Assembly, ... Southern Methodist Assembly plans to ... struct mission board building, cost $... 000, hotel, $75,000, and cottages $50,000.

N. C., Raleigh—Church—Memorial B... tist Church plans to build brick church ... Hillsboro St. About $150,000. Archite... not selected.

N. C., Wilmington—Hospital—Bulle... and Davis plan to build brick and concre... hospital on Grace St. About $125,000. ... B. Lynch, 201 North 13th St., archt.

Ga., Savannah—School—Bd. Educ. ha... plans prepared by W. B. Ittner, archt., 1... Educ. Bldg., St. Louis, Mo., for 3 story, 148 x 224 ft., rein.-con. and brick, rein.-con. flooring. About $1,000,000.

Ga., Savannah—School—Bd. Educ. ha... plans prepared by W. B. Ittner, archt., 1... Educ. Bldg., St. Louis, Mo., for 2 story, 152 x 158 ft., rein.-con. and brick, rein.-con. flooring. About $500,000.

Tenn., Nashville—Hospital Bldg.—Ed... Dir. Womans Hospital, 301 8th Ave. N., plans to build annex on 8th Ave. and Union St. About $200,000. C. H. Eastman, chn.

O., Berea—Hospital—Bd. Trade, c/o P. Newbrand, plans to build 3 story, rein.-con. steel and brick, rein.-con. flooring, concrete foundation. About $20000. Architect not selected.

O., Cleveland—Club House—Brooklyn Catholic Club Co., 4421 Pearl Rd., having plans prepared by M. Rosseau, archt., Wickford Ave., East Cleveland, for 2 story, 68 x 100 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, at 4427 Pearl Rd. About $100,000. H. Post, secy. Noted March 11.

O., Cleveland—Commercial—Knight-Norris-Gibbs Co., 1017 Euclid Ave., plans to build 3 story, rein.-con., steel and brick, rein.-con. flooring, at 3912 Prospect Ave. About $150,000. Architect not selected.

O., Cleveland—Exchange—Cleveland Telephone Co., Engineers Bldg., receives bids about Aug. 14, building 3 story, 60 x 150 ft., brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, on West 65th St. and Guthrie Ave. About $250,000. A. N. Symes, Engineers Bldg., engr. Hubbell & Benes, 4500 Euclid Ave., archt.

O., Cleveland—Offic...—See "Industrial Works."

O., Cleveland—Office—Gongwer Syndicate, c/o W. S. Longer, archt., 500 Marshall Bldg., plans to build 10 story, 50 x 100 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation on East 3rd St. and Lakeside Ave. About $500,000.

O., Cleveland—Police Station—City having plans prepared by J. H. MacDowell, archt., 604 City Hall, for 2 story, 60 x 184 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on East 37th St. and Woodland Ave. About $250,000.

O., Cleveland Heights (Warrensville P. O.)—School—Bd. Educ. having plans prepared by F. C. Warner, archt., Hippodrome Annex Bldg., Cleveland, for 3 story, 20 room, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Taylor Rd. About $500,000. E. K. Bryan, Lee Rd., clk.

O., Columbus—Theatre—M. Stearn, 988 Pennsylvania Ave., plans to build 6 story on High St. About $700,000.

O., Cuyahoga Falls—Church—Methodist Congregation plans to build new church on Main St. About $125,000.

O., Gettysburg—School—Trustees plan to build 2 story, 80 x 110 ft., rein.-con. and brick, concrete foundation. About $130,000. Walker & Norwich, Conover Bldg., Dayton, archts.

O., Lakewood (Cleveland P. O.)—Church and School—Christian Church, c/o C. Tousley, archt., 4500 Euclid Ave., Cleveland, soon lets contract building 1 story, 45 x 72 ft. brick and steel, brick foundation, on West 119th St. and Lorain Ave. About $100,000.

O., Marion—Bank—Marion Natl. Bank soon lets contract building 2 story, 47 x 132 ft., brick and stone, on Main St. About $150,000. Richards, McCarty & Bulford, 584 East Broad St., Columbus, archts.

O., Massillon—Market—City plans to build 2 story brick. About $100,000. Albrecht, Wilhelm and Kelley, Massillon, archts.

Buildings (Continued)

O., Payne—School—Robinette, Bruyere & Cameron, archts. and engrs., Spitzer Bldg., Toledo, receive bids about Aug. 24, building 2 story, 80 x 140 ft., brick, wood flooring, concrete foundation, for School Bd. About $100,000.

O., Springfield—Courthouse—Clark Co. Bd revised plans prepared by W. K. Shilling, archt .and engr., Fox Hollow Farm, R. No. 7, rebuilding 3 story, rein.-con., steel, stone and brick, rein.-con. flooring. Bonds for $245,000 voted for project.

Mich., Battle Creek—Sanitarium—City, c/o A. S. Kimball, plans to build 2 or 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation. About $100,000. Architect not selected.

Mich., Detroit—Offices—W. & L. Berman, c/o Berman-Dwyer Realty Co., 1317 Dime Bank Bldg., having plans prepared by Smith, Hinchman & Grylls, archts. and engrs., 710 Washington Arcade, for 10 story, 32 x 100 ft., rein.-con., brick, steel and terra cotta, rein.-con. flooring, concrete foundation, at 32-34 Cadillac Sq. About $500,000.

Mich., Detroit — Theatre — J. Kunsky, Madison Theatre Bldg., retained C. H. Crane and E. Kiehler, archts., Huron Bldg., to prepare plans for 2 story, rein.-con., brick and steel, rein.-con. flooring, brick foundation, on Mack Ave. About $200,000.

Mich., Gladstone — Church — All Saints' Congregation soon lets contract building 1 story, 59 x 144 ft., concrete, brick and tile. About $100,000. G. Arntzen, Escanaba, archt. Noted July 22.

Ill., Chicago — Lodge and Office — Humboldt Park Commandery, c/o M. J. Strauch, archt., 1356 Diversey St., had plans prepared for 3 story, 75 x 90 ft., concrete and steel, concrete foundation, at 240 North Kedzie Blvd. About $110,000.

Ill., Granite City — High School — Bd. Educ. having plans prepared by W. B. Ittner, archt., Bd. Educ. Bldg., St. Louis, Mo., for 3 story, brick. About $280,000.

Wis., Madison—Hospital—Madison Hospital Assn. having plans prepared by A. Peabody, state archt., Capitol Bldg., for 5 story, rein.-con. and brick, on University Ave. and Charter St. About $400,000.

Wis., Milwaukee—Dental School—Marquette University, 1115 Grand Ave., having preliminary plans prepared by Kirchoff & Rose, archts., Majestic Bldg., for brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, on Grand Ave. About $750,000.

Wis., Racine—High School—Bd. Educ. having preliminary plans prepared by E. B. Funston Co., archts., Robinson Blk., for 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation. About $400,000.

Ia., Waterloo—Lodge—Elks Lodge having plans prepared by M. B. Cleveland, archt., 1st Natl. Bank Bldg., for 2 story, rein.-con., brick and steel. About $100,000. H. Hartong, chn. bldg. com.

Minn., Minneapolis—Police Station—City having plans prepared by A. O. Fisher, asst. city building inspector, City Hall, for 2 story, 60 x 90 ft. concrete, brick and stone, at 2915 Bryant Ave. S. About $125,000.

Minn., Montevideo — School — Bd. Educ. having plans prepared by W. B. Ittner, archt., Bd. Educ. Bldg., St. Louis, Mo., for 2 story, concrete and brick. About $100,000.

Kan., Wichita—Exposition—City election Aug. 27 to vote on $200,000 bonds to construct addition to exposition building, on William and Water Sts. Architect and engineer not selected.

Kan., Wichita—Gymnasium—Fairmount College, College Hill, plans to build 75 x 90 ft. brick. About $100,000. W. N. Rollins, pres. Architect and engineer not selected.

S. D., Lead — Store — Hearst Mercantile Co. soon receives bids building 3 story, 180 x 200 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $250,000. H. W. J. Edebrook, Opera House Bldg., Denver, Col., archt.

Wyo., Rock Springs—Theatre—H. W. J. Edebrooke, archt., Opera House Bldg., Denver, Col., receives bids about Aug. 9, building 57 x 140 ft., rein.-con., steel and brick, rein.-con. flooring and foundation, for Rialto Amusement Co., Rock Springs. About $150,000.

Mo., St. Louis—Clubhouse—Young Mens Hebrew Assn., 3645 Delmar Blvd., plans to build rein.-con. and brick, rein.-con. flooring, to include gymnasium and swimming pool. Architect not selected.

Mo., Kansas City—Hotel, Club and Office—Marquette Council, Knights of Columbus, c/o J. Joyce, 3133 Euclid St., having plans prepared by E. E. Boillot, archt., Scarritt Bldg., for 10 story, steel, brick, stone and terra cotta. About $1,000,000.

Ark., Ft. Smith—Hospital—St. Edward's Hospital, North 15th and A Sts., having plans prepared by A. Klingensmith, archt., Rowland, Okla., for 4 story, 70 x 128 ft., brick and stone, rein.-con. flooring. About $250,000. Hedrick & Huff, Interstate Bldg., Kansas City, Mo., engrs.

Okla., Henryetta—Hospital—City election Aug. 27 to vote on $100,000 bonds to build 3 story hospital. Architect and engineer not selected.

Ariz., Mesa — Hotel — C. Tobey, archt., Phoenix, preparing plans for rein.-con. hotel, here. About $200,000. Owners name withheld.

Wash., Seattle—Office—Independent Paper Stock Co., Commercial Bldg., having plans prepared by L. S. Rosenor, engr., Insurance Exch. Bldg., San Francisco, for 3 story, 120 x 180 ft., rein.-con., rein.-con. flooring, concrete foundation, on Denny Way and Railroad Ave. About $150,000.

Cal., Atascadero — High School — Bd. Educ. receives bids about Oct. 1, constructing three 1 and 2 story buildings for high school. About $200,000. J. T. Roth, chn. bldg. comn.

Ont., Brantford—Store—L. R. Steel Co. Ltd., plans to build 3 story, concrete, brick and steel, on Queen and Colborne Sts. About $100,000.

Ont., Hamilton—School—Bd. Educ. having plans prepared by G. Brow, archt., Clyde Bldg., for 2 story, 8 room, concrete, brick and steel, concrete flooring and foundation. About $125,000.

Ont., Owen Sound—Theatre—C. Georgas and P. Leos having plans prepared by Hall & Duerr, archts., Lumsden Bldg., Toronto, for 2 story, concrete, brick and steel, concrete foundation. About $125,000.

Ont., Toronto—Chinese Y. M. C. A. plans to build 3 story, concrete, brick and steel, rein.-con. flooring, concrete foundation. About $150,000. E. B. Yung, secy. Architect not selected.

BIDS DESIRED

N. Y., Rochester—Hotel—Until Aug. 25, by J. A. Armstrong, archt., 127 North Dearborn St., Chicago, and Gordon & Kaelber, associate archts., Sibley Blk., constructing 9 story, terra cotta, rein.-con., stone and steel, rein.-con. flooring, concrete foundation, on East Ave. Owner's name withheld.

N. Y., Syracuse—Pavilions—Until Aug. 19, by M. L. King, archt. and engr., Snow Bldg., constructing tuberculosis pavilion for children and adults' pavilion for incipient cases, at Onondaga Sanatorium, Hoppers Glen. About $200,000. Noted Feb. 12.

O., Prospect—School—Until Aug. 14, by Bd. Educ., building 1½ story, 114 x 145 ft., fireproof construction. About $125,000. O. D. Howard, 8 East Broad St., archt.

O., Sidney—Theatre—Until Aug. 10, by C. B. De Weese Co., building 3 story, 83 x 166 ft. About $200,000. J. Q. Adams, New Southern Hotel, Columbus, archt. Noted May 20.

O., Toledo—School—Until Aug. 9, by Bd. Educ., Adams Twp., building 2 story, 40 x 56 ft. and 45 x 78 ft., in Adams Twp. About $150,000. M. M. Stophlet, 608 Nasby Bldg., Toledo, archt. and engr.

Ind., Evanston—Hotel and Theatre—J. E. O. Pridmore, archt., 38 South Dearborn St., Chicago, receiving bids building 6 story, 144 x 148 ft., rein.-con., brick and steel, concrete foundation, for Standard Evansville Realty Co.

Mich., Kalamazoo—School—Until Aug. 16, by H. W. Anderson, secy., Bd. Educ., building 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $200,000. R. A. LeRoy, 122 Pratt Blk., archt. Noted July 29.

Ia., Cedar Rapids — High School — Until Sept. 1, by Bd. Educ., building 4 story, 118 x 204 ft., brick, rein.-con. and steel. About $550,000. Rugh & Zalesky, Security Bldg., archts. Noted May 13.

Ia., Coburg—School—Until Aug. 19, by Bd. Educ., building 2 story, 43 x 81 ft., rein.-con., brick and stone, rein.-con. flooring, concrete foundation. About $100,000. J. M. McGreer, pres. W. Gordon, 319 Hubbell Bldg., Des Moines, archt. Noted March 18.

Minn., Hinckley—Home—Until Aug. 17, by A. P. Edin, aud. Pine Co. (Pine City) building 2 story, 80 x 93 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, here, for Pine Co. Home Assn. About $100,000. F. W. Schweiger, Moose Lake, archt. and engr.

S. D., Mitchell—Auditorium—Until Aug. 15, by Rapp & Rapp, archts., 190 North State St., Chicago, building 3 story, 150 x 180 ft., rein.-con., brick, stone and steel, rein.-con. flooring, concrete foundation, on North Main St. and 6th Ave., for city. About $500,000. Noted July 29.

N. D. Rolla—School—Until Aug. 21, by Bd. Educ. building 3 story, 60 x 78 ft., brick, tile and stone. About $125,000. E. P. Dixon clk. W. J. Edwards, 2nd Natl. Bank Bldg., Grand Forks archt.

Col., Denver—High School—Until Sept. 15, by School Bd., City and Denver Co., building 2 story, 125 x 350 ft. and 60 x 350 ft., brick, rein.-con. and steel, concrete foundation, on block bounded by South Washington, South Pearl, Baird and Cedar Aves. About $420,000. W. N. Bowman, Central Savings Bank Bldg., archt.

N. S., Halifax—Housing—Until Aug. 15, by S. M. Brookfield, pres. City Housing Com., building thirty 2 and 2½ story, concrete and brick houses, rock and concrete foundations. About $195,000. F. W. W. Doane, Halifax, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Mercantile—Haven & Crosby, archts. and engrs., 40 Court St., let contract to C. A. Dodge Co., Erie St., Cambridge, altering mercantile and loft building on North St., here, for J. K. Whiting, Milk St., Charlestown. Noted July 29.

★**Mass., Boston** — Office and Business — Henderson & Ross, 148 State St., let contract building 10 story, 50 x 60 ft., brick, concrete, terra cotta and steel, concrete flooring and foundation, to Evatt Constr. Co., 161 Devonshire St. About $600,000.

★**Mass., Brockton**—School—Bd. Educ. let contract building 2 story addition to Franklin Grammar School, brick, concrete and steel, concrete foundation, to T. F. Crowell, 19 South St. About $151,700. Noted July 8.

★**Mass., East Deerfield**—Boston & Maine RR., North Sta., Boston, let contract constructing 3 story, 70 x 120 ft. Y. M. C. A. building, brick and steel, concrete foundation, here, to H. W. Lines Co., 134 State St., Meriden, Conn. About $100,000. Noted Jan. 1.

★**Mass., Fall River**—Bank—Union Savings Bank, 14 South Main St., let contract building 1 story, 50 x 80 ft., brick, stone and steel, rein.-con. flooring, concrete foundation, on South Main and Market Sts., to F. T. Ley & Co., Inc., 499 Main St., Springfield.

★**Mass., Holyoke**—Recreation—Farr Alpaca Co., Jackson St., let contract constructing 4 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Cabot St., to S. M. Green Co., 293 Bridge St., Springfield. About $150,000.

★**Mass., Jamaica Plain** (Boston P. O.)—Theatre—F. Green, 37 Tremont St., Boston will build brick and steel, rein.-con. flooring concrete foundation, on Hyde Sq., here. About $150,000. Work will be done by day labor.

★**Mass., Mattapan** (Boston P. O.)—Dining Room—Commonwealth of Massachusetts, Comn. on Mental Diseases, 36 State House, Boston, let contract building 2 story, brick and concrete, rein.-con. flooring, concrete foundation (west group), at State Hospital, here, to F. G. Coburn, 294 Washington St., Boston, $173,464. Noted July 22.

★**Mass., Mattapan** (Boston P. O.)—Nurses' Home—Commonwealth of Massachusetts, Comn. of Mental Diseases, 36 State House, Boston, let contract building 2 story, brick, concrete and steel, rein.-con. flooring, concrete foundation (east group), at State Hospital, here, to F. G. Coburn, 294 Washington St., Boston, $106,270. Noted July 22.

★**Mass., Newton Upper Falls** (Boston P. O.)—Housing—Saco Lowell Mills, 77 Franklin St., Boston, let contract building ten 2 story, frame, brick and stucco houses for workmen, concrete foundations, to H. Nawn Constr. Co., 82 Savin St., Roxbury. About $100,000.

★**Mass., Springfield**—Bank—Springfield Natl. Bank, 321 Main St., will alter brick, concrete and steel. About $100,000. Work will be done by day labor under supervision of W. E. Dibble, archt., 317 Main St.

★**R. I., Providence**—Stores and Offices—F. W. Woolworth Co., 233 Bway., New York City, let contract building 5 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Westminster and Dorrance Sts., to C. B. Maguire Co., 1205 Turks Head Bldg. About $175,000. Noted July 29.

Buildings (Continued)

★**Conn., Hartford** — Business — J. McManus, 242 Asylum St., let contract building 3 story, 40 x 141 ft., brick, concrete and steel, concrete foundation, to E. J. Miskill, 296 Church St

★**Conn., Wallingford**—Armory—Connecticut Military Emergency Bd., State Armory, Hartford, let contract building 3 story, 38 x 75 ft. armory and 1 story, 75 x 150 ft. drill shed, brick, concrete and steel, rein.-con. flooring, concrete foundation, on North Main St., to Loucks & Clarke, Ernest St. About $100,000. Noted July 15.

★**N. Y., Dobbs Ferry**—School—Masters School let contract building 2 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, to Jacobs & Young, 120 West 32nd St., New York City. About $150,000.

★**N. Y., Far Rockaway** — School — Bd. Educ., 500 Park Ave., New York City, let contract building P. S. 39, brick, steel and stone, brick foundation, on State St., here, to T. Dwyer, Bway. and 216th St., New York City. About $134,000. Noted July 22.

★**N. Y., New York**—Hospital—B. Levingson, archt., 166 East 43rd St., let contract to Smith & Stone, 25 West 42nd St., building brick and stone addition, brick foundation for Beth David Hospital, 1328 Lexington Ave. About $150,000. Noted June 10.

★**N. Y., New York**—Office—J. S. Kennedy, archt. and engr., 157 Remsen St., let contract to B. Golden, Chambers St., building 6 story, brick, stone and steel, concrete foundation, on Gold and John Sts., for Bainbridge Co., c/o architect. About $500,000. Noted May 6.

★**N. Y., New York**—Store and Showroom —Avedon & Co., c/o H. A. Jacobs, archt. and engr., 326 5th Ave., let contract building 6 story, 35 x 100 ft., brick and steel, brick foundation, at 448 5th Ave., to Ablegans Constr. Co., 1311 East New York Ave., Brooklyn. About $150,000. Noted April 1.

★**N. Y., New York**—Theatre—L. and J. J. Shubert, 225 West 44th St., let contract building 50 x 125 ft., brick and stone, brick foundation, on 58th St. and Central park West, to E. Margolies, 19 East 33rd St. About $400,000.

★**Pa., Phila.**—Church—Oak Park United Presbyterian Church, c/o G. E. Savage, archt., Witherspoon Bldg., let contract building 1 story, 75 x 85 ft., stone, on 51st and Pine Sts., to G. B. Bond, 13th St. and 66th Ave. About $100,000.

★**Pa., Phila.**—Office—C. D. Barney Co., 122 South 4th St., let contract building 2 story, 25 x 125 ft., brick and stone, on Walnut and 14th Sts., to Ketcham & McQuade, 1029 Brown St. About $100,000.

★**Pa., Phila.**—Theatre—J. P. Beury let contract building 4 story, 78 x 80 ft., concrete, brick and steel, on 9th and Walnut Sts., to W. H. Lee, 32 South 17th St. Cost to exceed $100,000. Noted April 15.

★**D. C., Washington** — School — Dist. Comrs. let contract building addition to Petworth School, on 8th and Shepherd Sts., N. W., to W. E. Mooney, Evans Bldg., $171,665 (9 months).

★**O., Columbus**—Schools—Bd. Educ. let general contracts to Federal Constr. Co., Hartman Bldg., constructing 100 x 190 ft. on Sullivant Ave. and 120 x 209 ft. on Taylor Ave., both 2 story, $201,081 and $204,931 respectively; heating and ventilating above schools, to Huffman & Wolfe, 669 North High St., $35,383 and $35,382 respectively. Noted July 22.

★**Mich., Birmingham**—Bank—First Natl. Bank of Birmingham let masonry contract building 2 story, 75 x 100 ft., rein.-con. and stone, rein.-con. flooring, concrete foundation, to Hazelton & Clark, Book Bldg., Detroit. Noted April 22.

★**Mich., Detroit**— Clubhouse and Temple—Amity Lodge I.O.O.F., 35 Vincennes St., let masonry contract building 4 story, 50 x 100 ft., brick, steel and rein.-con., rein.-con. flooring, concrete foundation, to G. D. Nutt, 632 Farwell Bldg. About $150,000. Noted July 1.

★**Mich., Ferndale** — School — St. James Parish, c/o Donaldson & Meier, archts., 1314 Penobscot Bldg., Detroit, let masonry contract building 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Woodward Ave., to M. Bartholomaei Sons & Co., 466 Warren Ave., Detroit. Noted April 15.

★**Ia., Ames**—Club—Wesley Foundation of Iowa let general contract building 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, to C. Weitz & Sons, 713 Mulberry St., Des Moines. About $200,000. Foundation will be built this year, superstructure in 1921. Noted June 3.

★**Ia., Des Moines**—Office, etc.—Homestead Publishing Co., 1912 West Grand Ave., let contract building 7 story, 56 x 134 ft., brick, rein.-con. and steel office and warehouse, at 1912-20 Grand Ave. W., to C. Weitz & Sons, 713 Mulberry St. About $175,000.

★**Ia., Dubuque**—Chapel—Sisters of Mercy let contract building 4 story chapel, and foundation for novitiate, on Asbury Rd., to A. Awack, Dubuque. About $400,000.

★**Ia., George**—School—Bd. Educ. let general contract building 2 story, 84 x 127 ft., rein.-con., brick and steel, to M. A. Floyd Co., 535 Andrus Bldg., Minneapolis, Minn., $95,700.

★**Ia., Newhall** — School — Bd. Educ. let contract building 2 story, 67 x 86 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to Wheeler Constr. Co., Newhall. About $110,000. Noted May 13.

★**Ia., Zearing**—School—Bd. Educ. let contract building 2 story, 70 x 90 ft., brick, concrete and steel, concrete foundation, to Lauritzen Constr. Co., 305-6 Lafayette Bldg., Waterloo. About $130,000. Noted April 1.

★**Minn., Upsula** — School — Independent School Dist. 22 let general contract building 2 story, 55 x 156 ft., brick and frame, to C. Kropp & Son, St. Cloud, $79,197. Noted July 22.

★**N. D., Oakes**—School—Bd. Educ. let contract building 3 story, 68 x 155 ft., brick, to F. E. Peterson, 216 Van Slyke Bldg., Aberdeen, $145,836.

★**Wyo., Salt Creek**—Hotel—Midwest Refining Co., 1st Natl. Bank, Denver, Col., will build 2 story, 70 x 114 ft., concrete and brick, here. About $125,000. Work will be done by day labor.

★**Mo., St. Louis**—Apartment—Famous Players Corp., 3314 Locust St., let contract building 15 story, 100 x 125 ft., concrete, steel and brick, on Grand and Lucas Sts., to E. P. Porter, Merchants Laclede Bldg. About $1,200,000.

★**Mo., St. Louis** — Mercantile — Quality Realty Co., International Life Bldg., let contract building 4 story, rein.-con. and brick, rein.-con. flooring, on Forest Park Blvd., to P. J. Bradshaw, International Life Bldg. About $200,000.

★**Ark., Osceola**—Passenger Station—St. Louis & San Francisco Ry., Ry. Exch. Bldg., St. Louis, Mo., let contract building 1 story, 26 x 153 ft., rein.-con., tile and stucco, concrete foundation, here, to J. E. Nelson & Sons, 3240 Michigan Blvd., Chicago. About $100,000.

★**Tex., Del Rio**—Hotel—St. Charles Hotel Co. let contract building 3 story, 30 x 150 ft. hotel, to H. M. Hutchinson, Del Rio. About $150,000.

★**Okla., Oklahoma**—Coliseum—Coliseum Corp. let contract building 1 story, 160 x 204 ft., to Campbell & Price Constr. Co., 610-13 Majestic Bldg. About $187,000.

★**Col., Julesburg** — High School — School Dist. let general contract building 2 story, 37 x 151 ft., rein.-con. and brick, concrete foundation, to G. M. Tamblyn, 1527 Champa St., Denver. About $74,000.

N. S., Halifax—Hospital—Anti-Tuberculosis League received bids building hospital on City Home grounds, from Rhodes Curry Co., Amherst, $159,995; J. H. Holman Constr. Co., Halifax, $167,180; W. E. Landry, Halifax, $170,750.

★**Ont., St. Catharines**—College—Sproatt & Rolph, archts., 36 North St., Toronto, let masonry contract building addition to Ridley College, here, to Page & Co., Weston Rd., Toronto, total cost $200,000.

★**Ont., Toronto**—College—Ontario College of Art, St. James Sq., let contract building 2 story, stone, concrete flooring and foundation, to Witchall & Sons, 156 St. Helens Ave. About $120,000.

★**Ont., Toronto**—School—Bd. Educ. 155 College St., let masonry contract building concrete, brick and steel, concrete flooring, to H. Lucas & Sons, 141 Havelock St., $56,176; concrete, to R. A. Rogers, 107 Hiawatha Rd., $20,960; carpentry, to F. Armstrong, 89 Oak St., $32,255; plumbing and heating, to Purdy Mansell Ltd., 63 Albert St., $31,950.

★**Ont., Toronto**—School—Bd. Educ., 155 College St., let masonry contract for concrete, brick, steel and stone school, to Teggle & Son, 310 Davenport Rd. Total cost $160,000.

★**B. C., Stuart Lake**—School, Chapel, etc. —Dept. Pub. Wks., Victoria, let contract building 3 story, brick and frame school, laundry and chapel, concrete foundation, on Indian Reserve, to R. Moncrieff, 3820 11th Ave. W., Vancouver. About $174,500.

★**Jamaica Island, Kingston** — Hotel — United Fruit Co., Bd. Trade Bldg., Boston, let contract building 3 story addition to Myrtle Bank Hotel, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, here, to Aberthaw Constr. Co., 27 School St., Boston. About $225,000. Incorrectly noted in our issue of July 29, under "Kinkston, Mass."

Federal Government Work

PROPOSED WORK

Conn., New London—Roads, Walks, etc.—Spec. 4249—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids building roads, walks, storm sewers and railroad trucks, here; $10 deposit required for plans and spec.

N. Y., New York—Cable Reel Platform, etc.—Spec. 4243—Bureau Yards & Docks, Navy Dept. Wash., D. C., soon receives bids building cable reel platform, storage shed and fence, storage racks, and remodeling Bldg. 150 and demolishing Bldg. 151, $10 deposit required for plans and spec.

Va., Norfolk — Dredging — U. S. Engr. Office, Custom House, rejected bids received June 30, dredging inland waterway from here to Beaufort, N. C. Noted June 10.

Ky., Louisville—Steel Dump Scow—U. S. Engr. Office, 425 Custom House, rejected bids received July 8, furnishing and delivering. Noted June 10.

O., Cleveland—Repairing Breakwater and Placing Riprap—U. S. Engr. Office, Federal Bldg., rejected bids received July 19, repairing at Cleveland Harbor. Noted July 1

Ore., Astoria — Remodeling Customhouse and Post Office—Treas. Dept., Wash., D. C., received no bids July 29, remodeling here. J. A. Wetmore, superv. archt. Noted July 8.

BIDS DESIRED

R. I., Providence—Dredging—Until Aug. 26, by U. S. Engr. Office, dredging in Providence River and Harbor; advertised in this issue.

N. Y., Tompkinsville—Cast Iron Ballast Balls, etc.—Until Aug. 18, by Supt. Lighthouses, for 127 c.i. ballast balls with forged shackles, 200-2,600 lb. each and 72 iron buoy bottom castings with forged eye, 180-270 lb. each.

N. Y., Tompkinsville—Steel Bell Buoys, etc.—Until Aug. 19, by Supt. Lighthouses, for 8 steel bell buoys with skelton superimposed bell frame and bottom c.i. counterweight, 4 whistling buoys with whistles and 99 steel buoys with c.i. counterweight and w.i. mooring eye.

D. C., Wash.—Road Work—Until Aug. 17, by V. M. Peirce, dist. engr., Bureau Pub. Rds., U. S. Dept. Agriculture, improving and building 20.9 mi. Three States Natl. Forest Rd., within or partly within Nantahala Natl. Forest, Rabun Co., Ga., Macon Co., N. C. and Oconee Co., S. C.; advertised in this issue.

Va., Hampton Roads—Steam Distributing and Condensate Return System—Spec. 4258—Until Aug. 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing and installing, at Naval Operating Base, here; advertised in this issue.

Va., Roanoke—Remodeling Post Office and Court House—Until Aug. 27, by Treas. Dept., Wash., D. C., remodeling, here. J. A. Wetmore, superv. archt.; advertised in this issue.

S. C., Columbia—Post Office—Until Sept. 3, by Treas. Dept., Wash., D. C., completing, here. J. A. Wetmore, superv. archt.

Miss., Vicksburg—Stern Wheel Steel Towboat Hull—Until Aug. 23, at Office of Mississippi River Comn., 3d Dist., building 1 stern wheel steel towboat hull; advertised in this issue.

Tenn., Memphis — Return-Flue Boilers — Until Aug. 26, at Office of Mississippi River Comn., Custom House, furnishing and delivering 5 return-flue boilers for U. S. S. Chisca; advertised in this issue.

Tenn., Memphis—Steel Hull—Until Aug. 26, at Office of Mississippi River Comn., 1st and 2nd Dists., Custom House, furnishing 1 steel hull for U. S. S. Chisca; advertised in this issue.

O., Cleveland—Boiler—Until Aug. 17, by Treas. Dept., Wash, D. C., building, at Marine Hospital, here. J. A. Wetmore, superv. archt.

Ind., South Bend—Remodeling Post Office—Until Aug. 23, by Treas. Dept., Wash. D. C., remodeling, here. J. A. Wetmore, superv. archt.

Montana—Road Work—Until Aug. 9, by U. S. Bureau Pub. Rds., Missoula, grading 7 mi. West Fork Rock Creek Rd. Project, Carbon Co., involving 19,500 cu.yd. earth and 3,700 cu.yd. rock excav., 826 lin.ft. corrugated iron pipe culvert and 95 cu.yd. dry rubble masonry. T. M. Kiene, dist. engr.

★**Mo., St. Louis**—Stern Wheel Steamboat —Until Aug. 30, at office of Secy. Mississippi River Comn., 1311 International Life Bldg., rebuilding and delivering; advertised in this issue.

eral Government Work (Continued)

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass. Fall River—Remodeling Post Office Treas. Dept., Wash., D. C., received bids [illegible] 28, remodeling, here, from Theriault Contg. Co., 534 East Johnson St., Phila., $10,388; Norfolk Bldg. Co., 10 Acton St., Boston, $12,615; G. E. Wright, Monadnock Blk., Chicago, $12,500. Noted July 8.

★N. Y., New York—Gasoline Storage Sh d Spec. 4224—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Navy Yard, here, to R. M. Kearns, 692 Washington St., New York City, $5,999 (70 days). Noted July 29.

★Pa. Pittsburgh—Gate and Valve Operating Machinery—U. S. Engr. Office 2111 Farmers Bank Bldg. let contract furnishing and delivering for Emsworth Dam, Ohio River, to J. and J. B. Milholland, 714 5th Ave., $25,856. Noted July 29.

D. C., Wash.—Heating Plant Improvements—Spec. 4242—Bureau Yards & Docks, Navy Dept., received bids July 28, improving at Naval Observatory, (1) work complete, from W. G. Cornell Co., 923 12th St., (1) $9,437 (80 days), (2) $163, (3) $851; Standard Eng. Co., 2129 Eye St., (1) $9,980 (45 days), (2) $170, (3) $920; F. J. Eisinger, 141 7th Ave., Brooklyn, (1) $11,971 (90 days), (3) $10,986. Noted July 22.

D. C., Wash. — Superstructure — Dist. Comrs., Dist. Bldg., received bids constructing, at Rock Creek Pumping Sta., 27th and K Sts. N. W., from C. H. Tompkins, 1883 3rd St., $19,700; Skinker & Garrett, 1416 F St. N. W., $20,941; W. E. Mooney, Evans Bldg., $21,378. Noted July 8.

★Va., Cape Charles—Channel—Treas. Dept., Wash., D. C., let contract dredging new channel, at Quarantine Sta., here, to Raymond Concrete Pile Co., 921 Munsey Bldg., Baltimore, Md. About $45,000 (5 months).

★Va., Cape Charles—Wharf, Bulkhead, etc.—Treas. Dept., Wash., D. C., let contract building wharf, bulkhead and breakwater, at Quarantine Sta., here to J. Stewart & Co., Inc., 30 Church St., New York City, $77,665 (5 months). Noted July 22.

Va., Norfolk—Paint and Oil Storehouse—Spec. 4222—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 28, building 1 story, 62 x 202 ft., here, (1) work complete, from Boyle, Robertson Constr. Co., Evans Bldg., Wash., D. C., (1) $70,244 (175 days), (2) add $5,492, deduct $3,332, (3) add $5,682, deduct $3,385, (4) $76,184 (175 days), (5) add $5,913, deduct $3,692, (6) add $6,089, deduct $3,732; G. E. Wyne, Home Life Bldg., Wash., D. C., (1) $73,900 (160 days), (2) add $5,700, deduct $4,900, (3) add $5,900, deduct $5,100, (4) $78,350, (5) add $6,100, deduct $5,300, (6) add $6,300, deduct $5,500, (7) $98, (8) $24, (9) $98; R. M. Kearns, 692 Washington St., New York City, (1) $82,500 (160 days), (2) add $8,500, deduct $7,500, (3) add $8,700, deduct $7,700, (4) add $2,000 (5) add $8,880, deduct $7,800, (6) add $9,000, deduct $8,000, (7) add $16 per lin.ft., (8) deduct $13 per lin.ft., (9) deduct $600. Noted July 22.

Tenn., Chattanooga—Extending Workroom—Treas. Dept., Wash., D. C., received bids July 28, extending in U. S. Post Office and Courthouse, here, from G. E. Wright, Monadnock Blk., Chicago, $14,900; W. P. Thurston, Merchants Natl. Bank, Richmond, Va., $9,400. Noted July 8.

Mich., Battle Creek — Remodeling Post Office—Treas. Dept., Wash., D. C., received only bid July 30, remodeling here, from W. McDonald Constr. Co., St. Louis, Mo., $8,989. Noted July 8.

★Ia., Des Moines—Changes, Alterations and Additions—Treas. Dept., Wash., D. C., let contract altering, etc., U. S. Post Office, here, to C. Weitzs' Sons, 713 Mulberry St., $14,461 (90 days).

Idaho Road Work—Bureau Pub. Rds., U. S. Dept. Agriculture, Missoula, Mont., received lowest 3 bids July 10, building road in Nez Perse Natl. Forest, Sect. from Sta. 145 plus 25 to Sta. 735 plus 00, Idaho Co., from O. Hansen, Empire State Bldg., Spokane, Wash., $204,915 alternate $205,-459; Rich, Markus & Crowe, $212,179, alternate $213,991; General Constr. Co., Peyton Bldg., Spokane, $234,065 alternate $233,932.

Idaho—Road Work—Bureau Pub. Rds., U. S. Dept. Agriculture, Missoula, Mont., received lowest 3 bids July 9, constructing roads in Clearwater Natl. Forest Sect. from Sta. 2614 to 3135. Clearwater Co., from Sims & Carlson, Spokane, Wash., $172,827, alternate $171,631; Rich, Markus & Crowe, Missoula, Mont., $189,140, alternate $188,-707; Rajotte, Fobert & Winters, Ziegler Bldg., Spokane, $227,757, alternate $220,580.

Miscellaneous

PROPOSED WORK

Road Materials—Boston, Mass.—Bd. Pub. Wks. soon lets contract furnishing 40,000 lin.ft. straight edgestone, 200 small corners and 3,600 lin.ft. circle stone.

Elevating Equipment—Buffalo, N. Y.—H. E. Plumer, engr., Ellicott Sq., soon lets contract furnishing elevating equipment for 10-story warehouse, for Knowlton Warehouse Co., 93 Perry St.

Bituminous Material—St. George, S. I., N. Y.—C. D. Van Name, pres. Richmond Boro., received no bids furnishing and delivering 55,000 gal. About $7,000. Work will be readvertised. Noted July 8.

Grits—St. George, S. I., N. Y.—C. D. Van Name, pres. Richmond Boro., rejected bids received July 8, furnishing and delivering 600 cu.yd. grits in Dist. 3. Work will be readvertised. About $3,000. Noted July 1.

Garbage Reduction Plant, etc.—Syracuse, N. Y.—Common Council plans to issue $94,-000 bonds for garbage reduction plant and $106,000 for park and playground.

Port and Harbor Improvements — Baltimore, Md.—City election Nov. 2, to vote on $10,000,000 bonds to build docks, piers and warehouses. H. G. Perring, City Hall, ch. engr.

Canal Wall—Washington, D. C.—Dist. Comrs. and Federal Government appropriated 45,000 to reconstruct canal wall.

Steel—Sidney, O.—C. B. De Weese Co. soon lets contract furnishing necessary steel for building 3 story, 83 x 166 ft. theatre, J. Q. Adams, New Southern Hotel, Columbus, archt.

Dry Dock—Milwaukee, Wis.—Amer. Shipbuilding Co., foot 54th St., N. W., Cleveland, having plans prepared for rein.-con. and piling dry dock, foot Washington St., here. About $1,250,000. Private plans.

Transmission Line, etc.—St. Louis, Mo.—City plans to install transmission line and equipment for lighting highways and parks and replacing gas and gasoline lights. About $345,000. J. L. Rilliet, city engr.

Dam—Bouse, Ariz.—R. M. Stene et al. plan to build 140 ft. dam across Williams River, to be 110 ft. above river.

BIDS DESIRED

Gasoline—Brooklyn, N. Y.—Until Aug. 11, by E. Riegelmann, boro. pres., furnishing and delivering 20,000 gal. gasoline.

Locomotive Crane—Buffalo, N. Y.—G. Elias & Bro., Inc., 965 Elk St., receiving bids furnishing one 8 wheel locomotive crane, MCB Spec., standard gauge, 50 ft. boom.

Fire Apparatus — Phillipsburg, N. J.—Until Aug. 11, by city, furnishing 1 triple combination 500 gal. per minute motor driven fire apparatus. J. H. Houser, dir. Pub. Safety; advertised in this issue.

Street Cleaning, etc.—Phila., Pa.—Until Sept. 15, by city, cleaning streets and collecting ashes and rubbish for 1921, (Schedules 1 and 2); collecting and disposing of garbage, dead animals, etc., for 1921, also disposing without collecting, for 1 and 5 years respectively (Schedule 3); new equipment for street cleaning (Schedule 4); new equipment for collecting ashes a nd rubbish (Schedule 5); new equipment for collecting garbage, dead animals, etc., (Schedule 6); used equipment for street cleaning (Schedule 7); used equipment for collecting ashes and rubbish (Schedule 8); used equipment for collecting garbage, dead animals, etc. (Schedule 9). F. H. Caven, dir. Dept. Pub. Wks.; advertised in this issue.

Wharf—New Orleans, La.—Until Aug. 17, by Bd. Port Comrs. furnishing all material and construction Pauline St. wharf extension; advertised in this issue.

Ditcher-Nicollet, Minn. (St. Peter P. O.) —Until Aug. 10, by G. Zerwas, village recorder, for 1 Buckeye traction ditcher.

Lead Pipe—St. Paul, Minn.—Until Aug. 9, by H. W. Austin, city purch. agt., furnishing 100 coils, ¾ in.; 100 coils, ¾ in.; 20 coils, 1 in.; 10 coils, 1¼ in.; and 10 coils, 1½ in., extra strong lead pipe for water dept. O. Claussen, city engr.

Lamp Posts and Gas Mantles—St. Louis, Mo.—Until Aug. 17, by Bd. Pub. Serv., furnishing, installing and maintaining gas lamp posts, and gas there to, also incandescent gas mantle lamps, on all streets, for 1 year beginning Sept. 1. About 200,-000 and 250,000 respectively. E. R. Kinsey, City Hall, pres.

Wharf—Bass River, N. S.—Until Aug. 17, by R. C. Desrochers, secy., Dept. Pub. Wks., Ottawa, building wharf here. About $25,000.

Dam—Montreal, Que.—Until Aug. 19, by Quebec Streams Comn., Parliament Bldg., 59 Notre Dame St. E., building storage dam across Savane River. O. Lefebvre, ch. engr.

Wharf—Campbell River, B. C.—Until Aug. 17, by R. C. Desrochers, secy., Dept. Pub. Wks., Ottawa, repairing wharf, here. About 25,000.

Wharf—Grahm Landing, B. C.—Until Aug. 17, by R. C. Desrochers, secy., Dept. Pub. Wks., Ottawa, building floating wharf here on Arrow Lake. About $27,000.

Wharf—Kootenay, B. C.—Until Aug. 17, by R. C. Desrochers, secy., Dept. Pub. Wks., Ottawa, building floating wharf at Carrolls Landing on Arrow Lake.

Wharf—Nanaimo, B. C.—Until Aug. 17, by R. C. Desrochers, s cy., Dept. Pub. Wks., Ottawa, building wharfs on Moresby Island and Lyall Harbor, also on South Gabriola Island. About $37,000 and $35,000 respectively.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Castings—Boston, Mass.—City received only bid July 27, furnishing 70,050 lb. castings, from Mechanics Iron Co., 38 Kemble St., Roxbury, $0.065 per lb.

★Ferry Drop—Boston, Mass.—City let contract repairing ferry drop to W. H. Ellis & Son Co. 479 Meriden St. $9,287.

★Gate Valves—Boston, Mass.—City let contract furnishing twenty 16 in. gate valves, to Kennedy Valve Mfg. Co., 47 India St., $9,532. Noted July 22.

Portable School Houses—Boston, Mass.—City received bids July 27, building 15 portable school houses, from P. F. and J. J. Lamont, 1105 Dorchester Ave., Dorchester, $65,040; M. Saretto, $65,550; R. J. Conley, $65,600.

★Road Materials—Boston, Mass.—City let contract furnishing 50,000 gal. hot tar and 50,000 gal. cold tar patching materials, to Independent Coal Tar Co. 26 Broad St., 0.21 per gal. Noted July 29.

★Dam and Water Gates—Chicopee Falls, Mass.—Chicopee Mfg. Co., West Main St., let contract building 30 x 40 ft. rein.-con. dam and 10 water gates, to F. T. Ley & Co., Inc. 499 Main St., Springfield.

★Fire Escapes—New London, Conn.—Bd. Educ. let contract building fire escapes on various schools to O. Woodworth Co., 36 Pearl St., $45,225.

★Terminal Freighthouse—New York, N. Y.—E. S. Walsh, supt. pub. wks., Capitol, Albany, let contract building at Mott Haven, Bronx Boro., here, to Post & McCord, Exterior and 144th Sts., $150,468. Noted June 24.

★Road Materials—St. George, S. I.—C. D. Van Name, pres. Richmond Boro., let contract to J. E. Donovan, furnishing and delivering 345 ton natural lake asphalt, cost $15,180, 300 cy.yd. 1½ in. broken stone, 125 cu.yd. screenings and 150 cu.yd. ¾ in. broken stone of trap rock, cost $8,348, 350 cu.yd. grits, for Dist. 1, cost $1,255, 200 cu.yd. for Dist. 2, cost $1,080; to J. Johnson Sons, West New Brighton, 1,680 cu.yd. ¾ in. broken stone, 265 ton limestone dust and 325 cu.yd. cowbay sand, cost $13,591, 200 cu.yd. 1½ in. broken stone and 100 cu.yd. ¾ in. broken stone of traprock, $1,688. Noted July 1.

★Dock—Yonkers, N. Y.—City let contract building dock at foot of Main St., to G. W. Rogers & Co., 29 Bway., New York City, $151,135.

★Park—Camden, N. J.—City let contract improving Cooper Sq. Park, including building foundation walls, pool, etc., to Doyle & Co., 1519 Sansom St., Phila. About $75,000. Noted April 22.

Lake — Pittsburgh, Pa. — City received bids July 26, enlarging and improving Lake Elizabeth, West View Park, from A. V. Purnell, 507 Jarvella St., $32,218; F. and F. Duilus, 40 Boundary St., $34,665. Noted July 22.

★Posts—Milwaukee, Wis.—City let contract to Massey Concrete Products Co., 122 South Michigan Ave., Chicago, furnishing concrete posts for street lighting as follows: 1,000 posts at $15 each, 2 at $18, 7 at $30, 519 at $27, 364 at $32, 254 at $40, 96 at $47, 1,400 single brackets at $5.50 each and 150 double brackets at $8 each. STREETS AND ROADS

Steam Heating System — Minneapolis, Minn.—Bemis Bros. Bag Co., 604 South 4th St., let contract installing heating system in 7 story, 65 x 150 ft. factory at 600 4th St. S., to Hankee Heating Co., 922 2nd Ave. S.

Cable—St. Louis, Mo.—City received bids July 22, furnishing 171 mi. lead sheathed and steel tape lead sheathed cable, from Western Electric Co., 810 Spruce St., $162,-807, Commercial Electrical Supply, Bway. and Spruce St., Insulated Wire Co. and Central Telephone & Electric Co., 310 North 11th St., each $166,365.

OFFICIAL PROPOSALS

Bids: Aug. 18.

Construction of Substructure of Bridge

Augusta, Me.

Separate sealed tenders addressed to the undersigned and endorsed on the envelope "Tender for the Construction of the Substructure of the Edmundson, N. B.-Madawaska (Me.) International Bridge" will be received at the office of the Supervising Engineer, Department of Public Works, City of Quebec, Province of Quebec, Canada, up to the hour of 3 p.m., Wednesday, Aug. 18, 1920, and there publicly opened and read.

Tenderers are notified that:

Tenders will not be considered unless made on the forms supplied and signed with the actual signature of the tenderer, stating his occupation and place of residence. In the case of firms the actual signature and nature of the occupation and place of residence of each member of the firm must be given.

Each tender must be accompanied by an accepted cheque, on a chartered bank, equal to 10% of the total amount of the tender and payable to the order of the Minister of Public Works, Canada, and the State Commission of Highways, Maine, jointly, as a guarantee that the tenderer will execute the contract within ten days of the award and furnish a satisfactory bond amounting to one-half of the contract price for the faithful performance of the work.

The cheque will be forfeited should tenderer fail to enter into the contract when called upon to do so, and returned if the tender be not accepted.

Plans, specifications and forms of tender, bond and contract can be seen, and form of tender obtained, at the following places in Canada: Department of Public Works, Offices, Ottawa, Ont.; St. John, N. B.; Fredericton, N. B.; Quebec, P. Q.; Montreal, P. Q.; also at the Offices of the Postmaster at Edmundson, N. B., and at the Offices of the State Highway Commission, Augusta, Maine.

The Department of Public Works of Canada, and the State Highway Commission of the State of Maine do not bind themselves to accept the lowest of any tender.

By order of

R. C. DESROCHERS, Secretary,
Department Public Works, Canada.
PAUL D. SARGENT, Chief Engineer,
Maine State Highway Commission.

N. B.—The time for the opening of bids has been extended one week.

Bids: Aug. 13

Sanitary Work

Bedford Hills, N. Y.

Sealed proposals for Sanitary Work—Repairs to Sewage Disposal Plant, State Reformatory for Women, Bedford Hills, N. Y., will be received by Hon. Wm. G. Barrett, President, Board of Managers, State Reformatory for Women, Bedford Hills, N. Y., until 10:30 a.m., on Friday, Aug. 13, 1920, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of the proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of the contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of Specification No. 3561. Drawings, specifications and blank forms of proposal may be consulted at the State Reformatory for Women, Bedford Hills, N. Y., at the New York Office of the Department of Architecture, Room 618, Hall of Records Building, and the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. PILCHER, Capitol, Albany, N. Y.

Dated: July 23, 1920.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

Official Proposals reaching our office in first mail Wednesday morning (9 o'clock) can usually be published in the issue out the next day. Special price for Official Proposals, 40 cents a line.

Bids: Aug. 24.

Construction of Memorial Bridge

SUPERINTENDENT OF PUBLIC GROUNDS AND BUILDINGS,
COMMONWEALTH OF PENNSYLVANIA

Harrisburg, Pa.

Sealed proposals, accompanied by a check on a solvent bank or trust company, duly certified by a proper officer thereof, in the sum of twenty-five thousand ($25,000) dollars, as a proposal guaranty, will be received at the Office of the Superintendent of Public Grounds and Buildings of the Commonwealth of Pennsylvania, at Harrisburg, Pa., until 10 o'clock a.m., Tuesday, Aug. 24, 1920, for the construction of a Soldiers' and Sailors' Memorial Bridge, with Memorial Pylons at the western end thereof, together with the necessary approaches thereto, from a point on what is now State Street, in the Capitol Park, in the City of Harrisburg, following the line of State Street, across the tracks of the Pennsylvania Railroad, to a point at or near Thirteenth Street, having a length of approximately 2,687 feet 6 inches.

Specifications, drawings, proposal and contract forms are on file and can be seen in the Office of the Superintendent of Public Grounds and Buildings at Harrisburg, Pa.; the Office of the Chief Engineer in Baltimore, and in the Office of the Architect in New York.

Contractors may obtain two sets of the plans and specifications by depositing the sum of twenty-five ($25) dollars with the Superintendent, Engineer, or Architect. This deposit will be refunded upon the return of all sets without marking, disfigurement or other damage within ten days after the award of the contract.

The right is reserved to reject any or all proposals or parts thereof.

The successful bidder, when the contract is awarded will be required to furnish a satisfactory surety bond in a sum equal to twenty-five (25%) per cent of the contract awarded, to guarantee the faithful performance of the contract. Bidders must file with their proposal a letter signed by an authorized agent, the name of the bonding company who thereby agrees to bond the contractor, should he be awarded the contract by the Commonwealth of Pennsylvania.

BY ORDER OF THE
BOARD OF COMMISSIONERS OF PUBLIC GROUNDS AND BUILDINGS, COMMONWEALTH OF PENNSYLVANIA.
T. W. TEMPLETON, Superintendent.
SAMUEL B. RAMBO, Secretary.
J. E. GREINER & CO., Engineers,
Fidelity Building,
Baltimore, Md.
ARNOLD W. BRUNNER, Architect,
101 Park Avenue, New York City.

Bids: Aug. 23.

Sewage Treatment Plant Extensions

STATE HOSPITAL

Allentown, Pa.

Sealed proposals for the above contract work will be received by the Board of Trustees, State Hospital, Allentown, until 10 a.m., Monday, Aug. 23, 1920.

The work consists of approximately 1,500 cu.yd. excavation, 600 cu.yd. embankment, 150 cu.yd. reinforced concrete, 15 tons steel reinforcement, 180 cu.yd. rubble masonry, 1,700 cu.yd. broken stone, 7,000 feet split tile, 1,000 feet t.c. pipe, 12 tons c.i. pipe, chemical house 10 ft. x 20 ft., valves, fittings, steel shapes and miscellaneous castings.

Each proposal must be accompanied by a certified check for $500. Successful contractor must file surety bond for total estimated amount of contract. The right is reserved to reject any or all bids.

Plans and specifications can be seen at the office of the Superintendent, State Hospital, Allentown, and at Design and Construction Section, State Health Department, 22 South Third Street, Harrisburg, and sets may be obtained by personal or mail application after Monday, Aug. 2, 1920, at the former address upon certified check or cash deposit of $25 for each contract set.

HENRY I. KLOPP, M. D.,
Superintendent.

HARRY C. TREXLER,
Pres. Board of Trustees.

Bids: Aug. 18.

Construction of Superstructure of Bridge

Augusta, Me.

Separate sealed tenders addressed to the undersigned and endorsed on the envelope "Tender for the Construction of the Superstructure of the Edmundson N. B.-Madawaska (Me.) International Bridge" will be received at the office of the Supervising Engineer, Department of Public Works, City of Quebec, Province of Quebec, Canada, up to the hour of 3 p.m., Wednesday, Aug. 18, 1920, and there publicly opened and read.

Tenderers are notified that:

Tenders will not be considered unless made on the forms supplied and signed with the actual signature of the tenderer, stating his occupation and place of residence. In the case of firms the actual signature and nature of the occupation and place of residence of each member of the firm must be given.

Each tender must be accompanied by an accepted cheque, on a chartered bank, equal to 10% of the total amount of the tender and payable to the order of the Minister of Public Works, Canada, and the State Commission of Highways, Maine, jointly, as a guarantee that the tenderer will execute the contract within ten days of the award and furnish a satisfactory bond amounting to one-half of the contract price for the faithful performance of the work.

The cheque will be forfeited should the tenderer fail to enter into the contract when called upon to do so, and returned if the tender is not accepted.

Plans, specifications and forms of tender, bond and contract can be seen, and form of tender obtained, at the following places in Canada: Department of Public Works, Offices, Ottawa, Ont.; St. John, N. B.; Fredericton, N. B.; Quebec, P. Q.; also at the Offices of the State Highway Commission, Augusta, Maine.

The Department of Public Works of Canada, and the State Highway Commission of the State of Maine do not bind themselves to accept the lowest of any tender.

By order of

R. C. DESROCHERS, Secretary,
Department Public Works, Canada.
PAUL D. SARGENT, Chief Engineer,
Maine State Highway Commission.

N. B.—The time for the opening of bids has been extended one week.